DR. JUT WYNNE

Assistant Research Professor
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Cave Ecology Lab: https://nau.edu/biological-sciences/cave-ecology-laboratory/
Professional Website: http://www.jutwynne.com

Google Scholar ResearchGate

Qualified by: Over 20 years of experience developing, funding, and executing research projects on three continents, maintaining an active lecturing schedule, and delivering tractable recommendations to further both conservation of sensitive resources and planetary caves studies. Skills include statistical analysis, experimental design, community ecology, cave biology, imperiled species assessments, remote sensing, GIS, expedition planning, and high angle rope work.

I. BACKGROUND & ACCOMPLISHMENTS

Summary

- *Management*: Over 20 years of experience leading science expeditions globally; eight years of experience supervising a research lab.
- *Published works*: 46 peer-reviewed papers, one edited volume, and over 50 other publications including published abstracts, white papers, technical reports, and popular science articles (with Scientific American, EOS, The Explorers Journal, & Mongabay).
- *Teaching*: Tropical Ecology Field School in Belize (2024 marks the 3rd season)
- *Editorial & Peer Review*: Editorial: Book Editor, *Cave Biodiversity: Speciation and Diversity of Subterranean Fauna* (John Hopkins University Press); Associate Editor, *Frontiers in Ecology and Evolution*; Special Session Associate Editor, *Journal of Geophysical Research-Planets*; Editorial Board Member, *Diversity*; Subject Editor, *Subterranean Biology*. Peer review: *Advances in Space Research, Bishop Museum Occasional Papers, Diversity, Earth and Space Science, Engineering Geology, Entomologia Experimentalis et Applicata, Insect Conservation and Diversity, International Journal of Speleology, Journal of Cave and Karst Studies, Journal of Natural History, PeerJ, Planetary and Space Science, PLoS ONE, Scientific Reports, Subterranean Biology*, *Vadose Zone,* and *Wildlife Society Bulletin*.
- *Grant Writing*: More than two million in research funding secured for novel projects in ecology and planetary science since 2005.
- *Statistical Analysis*: >15 years of experience using R and other statistical programs.
- *Foreign Languages*: Spanish (professional working proficiency); French (limited working proficiency); Mandarin (very limited proficiency).

Professional Preparation

Ph.D. (2014), Biology (emphasis ecology), Northern Arizona University (NAU)
Title: *On Sampling, Habitat, and Relict Species of Cave-dwelling Arthropods of the American Southwest and Easter Island*

M.S. (2003), Environmental Science & Policy (emphasis wildlife ecology/ remote sensing), NAU
Title: *Landscape-scale Modeling of Vegetation Land Cover and Songbird Habitat, Pinaleños Mountains, Arizona*

Certificate in Ecotechnie (1998), UNESCO-Cousteau European Programme of Ecotechnie, Vrije Universiteit Brussel, Belgium

Professional Experience (*since 2008*)

2014-Present	Assistant Research Professor, Department of Biological Sciences, Northern Arizona University (NAU), Flagstaff, AZ
2020-Present	Research Ecologist, Center for Adaptable Western Landscapes, NAU, Flagstaff, AZ
2019-2020	Interim Division Curator, Colorado Plateau Museum of Arthropod Biodiversity, NAU, Flagstaff, AZ
2011-2020	Research Ecologist, Merriam-Powell Center for Environmental Research, NAU, Flagstaff, AZ
2014-2017	Research Scientist, The SETI Institute, Carl Sagan Center, Mountain View, CA
2008-2011	Research Ecologist, Colorado Plateau Research Station, NAU, Flagstaff, AZ
2008-2011	Research Associate, The SETI Institute, Carl Sagan Center, Mountain View, CA

Appointments, Awards, & Fellowships

2024	Lead Researcher, Rapa Nui to Mangareva (South Pacific) Voyage, Darwin 200
2022-24	Sigma Xi Distinguished Lecturer
2018	Fellow, Royal Canadian Geographical Society
2017	Fellow Finalist, AAAS Science & Technology Policy, Washington D.C.
2016	Fulbright Visiting Scholar, Comisión de Fulbright, Chile. Project: *Research & Conservation of Endemic Insects of Easter Island*
2015	Fellow, Planetary Science Summer School, NASA, Jet Propulsion Laboratory
2013	Elected Member, Cave Research Foundation
2012	Elected Member, Sigma Xi
2011	Research & Creative Award, "Most Promising Graduate Student Researcher," Northern Arizona University
2009	Fellow, Royal Geographical Society
2007	Awardee, Theodore Roosevelt Memorial Fund, American Museum of Natural History
2006	Fellow, The Explorers Club

Publications (°*Undergraduate student author*)

Peer-Reviewed

47. Vandenberg, J., J.T. Foster, & J.J. Wynne. (*In Review*). Season and strategy drive dietary variation in a northern Arizona grassland bat community. *Journal of Mammalogy*.
46. Sendra, A., J.J. Wynne, F. Palero, et al. (*Accepted*). Two new species of Central American cave-dwelling tachycampoids (Diplura: Campodeidae) with new data to disavow the tachycampoid monophyletic line. *Zoological Studies*.
45. Wynne, J.J. & R.N. Cal. 2025. A Bare-throated Tiger-Heron (*Tigrisoma mexicanum*) hunts in a cave. *The Wilson Journal of Ornithology* 137. doi.org/10.1080/15594491.2024.2444010
44. Wynne, J.J., F.G. Howarth, D.D. Cotoras, et al. 2025. Terrestrial arthropods of Rapa Nui: A fauna dominated by non-native species. *Global Ecology and Conservation* 57: e03280.
43. Soto-Adames, F., K. Daly, & J.J. Wynne. 2024. Synopsis of Neotropical *Trogolaphysa* (Collembola: Paronellidae) with reduced eye number and descriptions of two new troglobiontic species from Belize. *Taxonomy* 4: 199–236.
42. Wynne, J.J., M. Tellez, K. Hartwell, et al. 2023. Cave-dwelling crocodiles of central Belize. *International Journal of Speleology* 52: 75–81.
41. Malaska, M.J., A. Schoenfeld, J.J. Wynne, et al. 2022. Potential caves: Inventory of subsurface access points on Titan. *Journal of Geophysical Research: Planets.* doi.org/10.1029/2022JE007512

40. Wynne, J.J., J.E. Mylroie, T.N. Titus, et al. 2022. Planetary caves: A solar system view on processes and products. *Journal of Geophysical Research: Planets,* 127, e2022JE007303.
39. Wynne, J.J., S. Taiti, S. Pakarati, & A.C. Castillo-Trujillo. 2022. Range extension of the endemic terrestrial isopod, *Hawaiioscia rapui*, reveals the dispersal potential for the genus across the South Pacific. *Bishop Museum Occasional Papers* 147: 1–12.
38. Wynne, J.J., T.N. Titus, […], M.L. Kearney[⊙], et al. 2022. Fundamental science and engineering questions in planetary cave exploration. *Journal of Geophysical Research: Planets* 127, e2022JE007194*.*
37. Titus, T.N., J.J. Wynne, M.D. Jhabvala, & N.A. Cabrol. 2022. Using near–surface temperature data to calibrate high-resolution thermal infrared imagery and estimate physical surface properties. *MethodsX* 101644*.*
36. Mammola, S., M.B. Meierhofer, […], J.J. Wynne, et al. 2022. Towards evidence-based conservation of subterranean ecosystems. *Biological Reviews* 97: 1476–1510.
35. Ferreira, R., E. Bernard, […], J.J. Wynne, et al. 2022. Brazilian cave heritage under siege. *Science* 375: 1238–1239.
34. Wynne, J.J., J. Jenness, D.L. Sonderegger, T.N. Titus, et al. 2021. Advancing cave detection with terrain analysis and thermal imagery. *Remote Sensing* 13: 3578*.*
33. Wynne, J.J., F.G. Howarth, S. Mammola, R.L. Ferreira, et al. 2021. A conservation roadmap for the subterranean biome. *Conservation Letters* 14: e12834*.*
32. Titus[*], T.N., J.J. Wynne[*], M.J. Malaska[*], et al. 2021. A roadmap for planetary cave science and exploration. *Nature Astronomy* 5: 524–525. ([*]*shared lead authorship*).
31. Sánchez-Fernández, D., D.M.P. Galassi, J.J. Wynne, P. Cardoso, et al. 2021. Don't forget subterranean ecosystems in climate change agendas. *Nature Climate Change* 11: 458–459.
30. Mammola, S., […], J.J. Wynne, et al. 2020. Fundamental research questions in subterranean ecology. *Biological Reviews* 95: 1855–1872.
29. Hershauer, S.[⊙], S.Y. Pakarati, & J.J. Wynne. 2020. Notes on the arthropod fauna of Salas y Gómez Island, Chile. *Revista Chilena de Historia Natural* 93: 1–6.
28. Feng, Z., J.J. Wynne, & F. Zhang. 2020. Four new hypogean pseudoscorpions (Pseudoscorpiones, Neobisiidae) from Guizhou, China. *Subterranean Biology* 34: 61–98.
27. Feng, Z., J.J. Wynne, & F. Zhang. 2019. Two new subterranean-adapted pseudoscorpions (Pseudoscorpiones: Neobisiidae) from Beijing, China. *Zootaxa* 4661: 145–160.
26. Liu, W., & J.J. Wynne. 2019*.* Cave millipede diversity with descriptions of six new species from Guangxi, China. *Subterranean Biology* 30: 57–94.
25. Mammola, S., […], J.J. Wynne et al. 2019. Scientists' warning on the conservation of subterranean ecosystems. *BioScience* 69: 641–650.
24. Wynne, J.J., J.R. Boyero Gallardo, E. Pardo Igúzquiza, S. Hershauer[⊙], et al. 2019. La biota de las cuevas del Parque Natural de la Sierra de las Nieves, Andalucía, con recomendaciones para futuras investigaciones y gestión. *Andalucía Subterránea* 31: 30–50.
23. Wynne, J.J., F.G. Howarth, S. Sommer, & B.G. Dickson. 2019. Fifty years of cave arthropod sampling: techniques and best practices*. International Journal of Speleology* 48: 33–48*.*
22. Gao, Z., J.J. Wynne, & F. Zhang. 2018. Two new species of cave-adapted pseudoscorpions (Pseudoscorpiones, Neobisiidae, Chthoniidae) from Guangxi, China. *Journal of Arachnology* 46: 345–354.
21. Wynne, J.J., S. Sommer, F.G. Howarth, B.G. Dickson, et al. 2018. Capturing arthropod diversity in complex cave systems. *Diversity and Distributions* 24: 1478–1491.
20. Bernard, E.C., & J.J. Wynne. 2017*. Disparrhopalites naasaveqw* n. sp. from caves on Wupatki National Monument, Arizona, and synonymy of *Dietersminthurus* Palacios-Vargas, Cuéllar & Vázquez, 1998 with *Disparrhopalites* Stach, 1956 (Collembola: Sminthuridae). *Zootaxa* 4319: 77–90.
19. Cotoras[*], D.D., J.J. Wynne[*], L. Flores, C. Villagra. 2017*.* The spiders of Rapa Nui revisited. *Bishop Museum Occasional Papers* 120: 1–17 ([*]*shared lead authorship*).

18. Wynne, J.J. 2017. White-nose syndrome decontamination procedures for backcountry subterranean projects. *Park Science* 33: 16–28.
17. MacKenzie, S., […], J.J. Wynne, et al. 2016. THEO Mission Concept: Testing the Habitability of Enceladus's Ocean. *Advances in Space Research* 58: 1117–1137.
16. Wynne, J.J., & W.A. Shear. 2016. A new millipede (*Austrotyla awishashola,* n. sp., Diplopoda, Chordeumatida, Conotylidae) from New Mexico, USA, and the importance of cave moss gardens as refugial habitats. *Zootaxa* 4084: 285–292.
15. Taiti, S., & J.J. Wynne. 2015. The terrestrial Isopoda (Crustacea, Oniscidea) of Rapa Nui (Easter Island), with descriptions of two new species. *ZooKeys* 515: 27–49.
14. Bernard, E.C, F.N. Soto-Adames, & J.J. Wynne. 2015. Collembola of Rapa Nui (Easter Island) with descriptions of five endemic cave-restricted species. *Zootaxa* 3949: 239–267.
13. Harvey, M.S., & J.J. Wynne. 2014. Troglomorphic pseudoscorpions (Arachnida: Pseudoscorpiones) of northern Arizona, with descriptions of two new short-range endemic species. *Journal of Arachnology* 42: 205–219.
12. Wynne, J.J., E.C. Bernard, F.G. Howarth, S. Sommer, et al. 2014. Disturbance relicts in a rapidly changing world: the Rapa Nui (Easter Island) factor. *BioScience* 64: 711–718.
11. Wynne, J.J., & K.D. Voyles. 2014. Cave-dwelling arthropods and vertebrates of North Rim Grand Canyon, with notes on ecology and management. *Western North American Naturalist* 74: 1–17.
10. Peck, S.B., & J.J. Wynne. 2013. *Ptomaphagus parashant* new species (Coleoptera: Leiodidae: Cholevinae: Ptomaphagini): the most troglomorphic cholevine beetle known from Western North America. *The Coleopterists Bulletin* 67: 309–317.
9. Wynne, J.J. 2013. Inventory, conservation and management of lava tube caves at El Malpais National Monument, New Mexico. *Park Science* 30: 45–55, +appendix.
8. Mockford, E.L., & J.J. Wynne. 2013. Genus *Cyptophania* Banks (Psocodea: Lepidopsocidae): Unique features, augmented description of the generotype, and descriptions of three new species. *Zootaxa* 3702: 437–449.
7. Allner, M., C. McKay, […], J.J. Wynne. 2010. NASA's explorer school and Spaceward Bound programs: Insights into two education programs designed to heighten public support for space science initiatives. *Acta Astronautica* 66: 1280–1284.
6. Shear, W.A., S.J. Taylor, J.J. Wynne, & J.K. Krejca. 2009. Cave millipeds of the United States. VIII. New genera and species of polydesmidan millipeds from caves in the southwestern United States (Diplopoda, Polydesmida, Polydesmidae and Macrosternodesmidae). *Zootaxa* 2151: 47–65.
5. Azua-Bustos, A., C. Gonzalez, […], J.J. Wynne, C.P. McKay. 2009. Ancient photosynthetic eukaryote biofilms in an Atacama Desert coastal cave. *Microbial Ecology* 58: 485–496.
4. Wynne, J.J., T.N. Titus, G. Chong Diaz. 2008. On developing thermal cave detection techniques for Earth, the Moon and Mars. *Earth and Planetary Science Letters* 272: 240–250.
3. Cushing, G.E., T.N. Titus, J.J. Wynne, P.R. Christensen. 2007. THEMIS observes possible cave skylights on Mars. *Geophysical Research Letters* 34: L17201.
2. Jenness, J., & J.J. Wynne. 2005. Cohen's Kappa and classification table derived metrics: An ArcView 3x extension for accuracy assessment of spatially explicit models. USGS-Southwest Biological Science Center, Open-File Report OF 2005-1363, December 2005. 86pps.
1. Wynne, J.J., & W. Pleytez. 2005. Sensitive ecological areas and species inventory of Actun Chapat Cave, Vaca Plateau, Belize. *Journal of Cave and Karst Studies* 67: 148–157.

Book & Book Chapters

6. Wynne, J.J. 2022. *Cave Biodiversity: Speciation and Diversity of Subterranean Fauna.* John Hopkins University Press (JHUP), MD, Pps. 352.
5. Howarth, F.G. & J.J. Wynne. 2022. Influence of the physical environment on terrestrial cave arthropod diversity. In *Cave Biodiversity: Speciation and Diversity of Subterranean Fauna* (J.J. Wynne, editor), 1–56, JHUP.

4. Wynne, J.J.**,** M.L. Niemiller, & K.J. Chapin. 2022. Evolutionary models influencing subterranean speciation. In *Cave Biodiversity: Speciation and Diversity of Subterranean Fauna* (J.J. Wynne, editor), 57–94, JHUP, MD.
3. Zhao, Y., A.G. Gluesenkamp, J.J. Wynne, et al. 2022. Diversity, distribution, and conservation of cavefishes of China. In *Cave Biodiversity: Speciation and Diversity of Subterranean Fauna* (J.J. Wynne, editor), 271–305, JHUP, MD.
2. Wynne, J.J., C.A. Drost, N.S. Cobb, & J.R. Rihs. 2007. Cave-dwelling invertebrate fauna of Grand Canyon National Park, Arizona. *In* Proceedings of the 8th Biennial Conference of Research on the Colorado Plateau (C. van Riper and M. Sogge, Eds). University of Arizona Press, Tucson, pp. 235–246.
1. Boykin, K., C.A. Drost, & **J.J. Wynne**. 2007. A gap analysis of terrestrial vertebrate species of the Colorado Plateau: assessment from the Southwest Gap Analysis Project. *In* Proceedings of the 8th Biennial Conference of Research on the Colorado Plateau (C. van Riper and M. Sogge, Eds). University of Arizona Press, Tucson, pp. 235–246.

Published Abstracts

18. Titus, T.N., J.J. Wynne, M. Malaska, & P.J. Boston. 2024. Planetary caves from Mercury to Pluto. 9th USGS Karst Interest Group, Nashville, TN.
17. Malaska, M.J., A. Schoenfeld, J.J. Wynne, et al. 2023. Caves on Saturn's moon Titan. 4th International Planetary Caves Conference, Lanzarote, Spain.
16. Kearney☉, M.L., J.J. Wynne, G.E. Cushing, N.M. Bardabelias, & N.G. Barlow. 2021. Robotic exploration potential of Martian caves. Abstract #2078, 52nd Lunar and Planetary Science (LPSC) Virtual Conference.
15. Phillips-Lander, C.M., J.J. Wynne, N. Chanover, C. Demirel-Floyd, et al. 2020. Mars Astrobiological Cave and Internal habitability Explorer (MACIE): A New Frontiers Mission Concept. 38th Mars Exploration Program Analysis Group, Jet Propulsion Laboratory, Pasadena, CA.
14. Wynne, J.J., C.M. Phillips-Lander, & T.N. Titus. 2020. Proposed mission architecture and technology requirements for robotic and human exploration of martian caves. Abstract # 1634, 51st LPSC, Houston, TX.
13. Phillips-Lander, C.M., J.J. Wynne, A. Parness, K. Uckert, et al. 2020. MACIE: Mars Astrobiological Caves and Internal Habitability Explorer (Mission Concept). 51st LPSC, Houston, TX.
12. Wynne, J.J., C.M. Phillips-Lander, & T.N. Titus. 2020. Proposed mission architecture and technology requirements for robotic and human exploration of martian caves. Abstract # 1043, 3rd International Planetary Caves Conference, San Antonio, TX.
11. Phillips-Lander, C.M., J.J. Wynne, A. Parness, K. Uckert, et al. 2020. MACIE: Mars Astrobiological Caves and Internal Habitability Explorer (Mission Concept). 3rd International Planetary Caves Conference, San Antonio, TX.
10. Phillips-Lander, C.M., J.J. Wynne, & A. Stockton. 2019. Influence of the cave environment on habitability & biosignatures: Implications for finding life on Mars. 2019 AbSciCon, Bellevue, WA.
9. Wynne, J.J., J. Jenness, M.D. Jhabvala, T.N. Titus, & D. Billings. 2015. Detecting terrestrial caves by applying topographic analysis techniques to thermal imagery. Abstract #9029, 2nd International Planetary Caves Conference, Flagstaff, AZ.
8. Newcomer, K.B., J. Moersch, […],, J.J. Wynne, & M. Chojnacki. 2011. Evaluation of a proposed technique for identifying Martian caves in THEMIS infrared images. Abstract # 2739. 42nd LPSC, League City, TX.
7. Titus, T.N., J.J. Wynne, M.D. Jhabvala, G.E. Cushing, et al. 2011. Cave detection using oblique thermal imaging, Abstract #8024, 1st International Planetary Caves Workshop, Carlsbad, NM.
6. Ruby, D., J.J. Wynne, & T.N. Titus, 2011. Novel volumetric cave mapping process utilizing existing technologies. Abstract # 831. 1st International Planetary Cave Research Workshop, Carlsbad, NM.
5. Titus, T.N., J.J. Wynne, D. Ruby, & N.A. Cabrol. 2010. The Atacama Desert cave Shredder: A case for conduction thermodynamics, Abstract #1096, 41st LPSC, Houston, TX.

4. Carol, N.A., E.A. Grin, & J.J. Wynne. 2009. Detection of caves and cave-bearing geology on Mars. Abstract # 1040. 40th LPSC, Houston, TX.
3. Wynne, J.J., T.N. Titus, M.D. Jhabvala, G.E. Cushing, et al. 2009. Distinguishing caves from non-cave anomalies: Lessons for the Moon and Mars, Abstract #2451, 40th LPSC, Houston, TX.
2. Wynne, J.J., T.N. Titus, C.A. Drost, R.S. Toomey III, et al. 2008. Annual thermal amplitudes and thermal detection of Southwestern U.S. caves: Additional Insights for Remote Sensing of Caves on Earth and Mars, Abstract #2459, 39th LPSC, Houston, TX.
1. Wynne, J.J., T.N. Titus, M.G. Chapman, G. Chong, et al. 2007. Thermal behavior of Earth caves: A Proxy for gaining inference into Martian cave detection. Abstract # 2378. 37th LPSC, Houston, TX.

Popular Science Articles

11. Wynne, J.J. 2024. Cave-dwelling animals of Xibalba. *Explorers Log* 56: 30–31.
10. Titus, T.N., K. Williams, & J.J. Wynne. 2023. Caves across the solar system. USGS Astrobiology Science Center News. January 17, 2023.
9. Wynne, J.J. 2021. Belize's Maya Forest Corridor a 'missing link' to giant rainforest reserve. *Mongabay.*
8. Titus, T.N., C.M. Phillips-Lander, P.J. Boston, J.J. Wynne, & L.A. Kerber. 2020. Planetary cave exploration progresses. *EOS* 101: 1–9.
7. Wynne, J.J. 2017. Spanish caves reveal a trove of biological treasures. *Scientific American.*
6. Wynne, J.J. 2017. Endemic insects of Rapa Nui: Searching for vestiges of past ecosystems. *The Explorers Journal* 95 (2): 14–25.
5. Wynne, J.J. 2017. The hunt for endemic insects on Easter Island. *Scientific American.*
4. Wynne, J.J., T.N. Titus, & P.J. Boston. 2016. Planetary caves' role in astronaut bases and the search for life. *EOS,* 97.
3. Wynne, J.J. 2016. The scientific importance of caves in our solar system. *NSS News* 03/2016: 4–7.
2. Wynne, J.J. 2014. Reign of the Red Queen: The future of bats hangs in the balance. *The Explorers Journal* 92: 40–45.
1. Wynne, J.J., & C.A. Drost. 2009. Southwest caves reveal new forms of life: U.S. Geological Survey Fact Sheet 2009-3024, 2 p.

Papers in Preparation

Wynne, J.J. R.N. Cal, & K. Hartwell. Cave-dwelling jaguars of Central Belize. *Biology*.

Harvey, M.S., M. Portflitt Toro, J.J. Wynne, & D.D. Cotoras. Pseudoscorpions from Motu Motiro Hiva, a remote Polynesian island, with the description of a new genus of Chernetidae (Pseudoscorpiones). *Journal of Arachnology*.

Proud, D.N., Z. Csikos, J.J. Wynne, & A. Pérez-González. A new troglobiontic species of *Akdalima* (Opiliones: Laniatores: Samoidae) from Belize. *Journal of Arachnology*.

Vandenberg, J., B. W. Miller, M. Szydlo, J.J. Wynne. Seasonal activity patterns of bats at earth crack caves in northern Arizona. *Journal of Mammology*.

Grants (≥$20k reported)

2024	PI, Grand Canyon National Park, *All-taxa Biological Inventory of Grand Canyon Caves*, Amount: $25,000.00.
2023	PI, NCKRI National Seed Grant Program, *First Study to Examine Cave-dwelling Animal Communities in Bhutan*, Amount: $25,000.00.
2023	PI, NAU TRIF Faculty Research & Creative Activity Support Grant, *Cave-dwelling Animals of Xibalba: Confluence of Conservation Ecology and Maya Cosmology,* Amount: $20,000.00.
2014-25	PI, National Park Service, Wupatki National Monument, *Biological Inventory, Mapping and Microclimate Data Collection of Earth-crack Caves*, Amount: $126,000.00.
2015-20	PI, National Park Service, *Natural Resource Conditions Assessment, Chaco Culture National Historical Park*, Amount: $62,500.00.
2015-19	PI, National Park Service, *Natural Resource Conditions Assessment, Petrified Forest National*

Park, Amount: $100,000.00.

2015 PI, NASA-Goddard Space Flight Center, *Processing and Interpretation of Thermal Imagery for Cave Detection*, Amount: $40,000.00.

2011-13 PI, National Park Service, Grand Canyon-Parashant National Monument, *Habitat Characterization and Climate Change of Bat Cave Hibernacula*, Amount: $67,000.00.

2011 PI, National Park Service, Grand Canyon-Parashant National Monument, *Habitat Characterization and Inventory of Wet Caves*, Amount: $29,700.00.

2009-13 Co-I, Institutional PI, NASA Exobiology and Evolutionary Biology Program, *Characterization of Pit Crater/Cave Interactions for Comparison of Earth/Mars Analogs*, Amount: $48,000.00.

2008-11 Co-PI, NASA Exobiology and Evolutionary Biology Program, *Cave Detection on Earth and Mars*, Amount: $661,000.00.

2007 PI, National Park Service, Grand Canyon-Parashant National Monument, *Biological Inventory of 15 Caves*, Amount: $48,000.00.

2005 Co-PI, NASA Exobiology and Evolutionary Biology Program, *A Strategy to Identify Instrumentation and Mission Requirements for Finding Subterranean Areas to Investigate for Evidence of Martian Life*, Amount: $250,000.00.

2005 Co-PI, National Park Service, Grand Canyon-Parashant National Monument, *Baseline Inventory of Known Caves on Parashant National Monument,* Amount: $30,000.00.

II. LEADERSHIP & SERVICE

Summary

- *Project Development & Execution*: Organized, led, and successfully completed over 80 research expeditions in five countries including aircraft missions for global processes studies.
- *Service*: Associate Editor for Diversity and Frontiers of Ecology and Evolution, Guest Associate Editor for Journal of Geophysical Research-Planets, and Subject editor for Subterranean Biology, as well as organized workshops, chaired conference sessions, and served or currently serve on numerous committees for various agencies and organizations.

Professional Service

2023	Member, Science Organizing Committee, 4th International Planetary Caves Conference, Canary Islands, Spain
2021-2022	Guest Associate Editor, *Journal of Geophysical Research: Planets*
2021-Present	Associate Editor, *Frontiers in Ecology and Evolution*
2021-Present	Associate Editor, *Diversity*
2020-Present	Subject Editor, *Subterranean Biology*
2020-2022	Reviewer, Hooper and Urdea Undergraduate Research Awards, NAU
2020	Content Reviewer, A Moment in Science, Indiana Public Media/ National Public Radio
2020	Member, Science Organizing Committee, 3rd International Planetary Caves Conference, San Antonio, TX
2017-2020	Vice Chair, IUCN SSC Cave Invertebrate Group
2016	Co-Coordinator, Avances en el Conocimiento sobre la Diversidad y Distribución de Insectos de Chile, Instituto de Entomología, Universidad Metropolitana de Ciencias de la Educación, Santiago, Chile.
2016-2021	Associate Editor, Journal of Ambient Science
2015	Organizer, 2nd International Planetary Caves Conference, Flagstaff, AZ
2014-2019	Reviewer, Exploration Fund Grants (for graduate students and post-docs), The Explorers Club
2014-Present	Member, IUCN SSC Cave Invertebrate Group
2011-17	Member, U.S. Fish and Wildlife Service White-Nose Syndrome Disease Management Working Group

2011-19 Member, Scientific advisory board, Easter Island Foundation
2010-18 Reviewer, John Prather Memorial Scholarship in Conservation Biology (for graduate students), NAU.
2008-15 Associate curator, Colorado Plateau Biodiversity Center, NAU
2005-19 Associate curator, Colorado Plateau Museum of Arthropod Biodiversity, NAU
2014-17 Chair, Science Advisory Committee, The Explorers Club
2013-14 Member, Board of Directors, Pacific Islands Research Institute
2012 Session Chair, 8th International Conference on Easter Island and the Pacific, Santa Rosa, CA
2012-16 Chair, Southwest Chapter, The Explorers Club
2012-13 Member, Flag and Honors Committee, The Explorers Club
2011-12 Vice Chair, Southwest Chapter, The Explorers Club
2007-09 Instructor, NASA Spaceward Bound!, Mojave Desert, CA
2007 Session Chair, Special Session Cave Research in the Western U.S., 9th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ
2006-11 Director at Large, Cave Conservation and Management Section, National Speleological Society

III. TEACHING & INSTRUCTION

Summary

- *University Instruction*: Lead the Tropical Ecology Field School in Belize (BIO 485) annually; taught capstone ecology course (Environmental Ecology, ENV 326) for undergraduates at NAU; led ten independent studies for undergraduate students. Currently, advising one M.S. student and mentoring four undergraduate students. Over the past decade, mentored dozens of graduate and undergraduate students on various field and lab projects.
- *Educational Outreach*: Volunteered to speak with over 4,000 K-12 students. Since 2006, I've spoken with K-12 students in 52 individual classrooms and school assemblies.
- *Teaching Interests*: Field ecology; conservation biology; community ecology; quantitative biology; cave biology; zoology; field entomology; island biogeography; astrobiology; and, field safety and expedition planning.
- *Languages*: Capable of teaching and lecturing in English and Spanish.

University Level Instruction and Mentorship (Ψ*Invited*)

2024 Mentor, NAU Interns-to-Scholars Program (Project: Arthropod Fauna of Pitcairn Island: Liliana Nemecek).
2023 Mentor, NAU Interns-to-Scholars Program (Project: Cliff-dwelling Invertebrates of Rapa Nui, Chile; undergraduate student: Katie Puckett).
2023 Instructor, NAU Tropical Ecology Field School, Belize.
2023 ΨGuest lecturer, Special Topics: Cave Biology (BYS 491-691), Department of Biological Sciences, The University of Alabama in Huntsville. *Cave biodiversity of Runaway Creek Nature Reserve, Belize* (19 undergraduate students).
2022 Mentor, NAU Interns-to-Scholars Program (Project: Cave-dwelling Arthropods of Rapa Nui, Chile; undergraduate student: Liliya Gilroux).
2022 Mentor, NAU Interns-to-Scholars Program (Project: Wupatki National Monument, Arizona; undergraduate student: Sofia Langran).
2020 ΨGuest lecturer, GIS and Spatial Techniques in Forestry (FOR 525), School of Forestry, Northern Arizona University, Flagstaff. *Use of GIS in cave research* (18 graduate students).
2019 ΨGuest lecturer, GIS and Spatial Techniques in Forestry (FOR 525), School of Forestry, Northern Arizona University, Flagstaff. *Terrestrial cave detection and applications for robotic and human*

exploration on Mars (20 graduate students).

2018 ᴪGuest lecturer, GIS and Spatial Techniques in Forestry (FOR 525), School of Forestry, Northern Arizona University, Flagstaff. *Terrestrial cave detection and the future of robotic and human exploration on Mars* (14 graduate students).

2018 ᴪGuest lecturer, Methods of teaching secondary science, Department of Biology, SUNY-Cortland, Cortland, NY. *Tenets of community-based research and conservation* (10 undergraduates).

2017 ᴪGuest lecturer, Invasive plant ecology undergraduate course, Department of Biology, SUNY-Cortland, Cortland, NY. *The invasive arthropods of Rapa Nui* (25 undergraduates).

2016 ᴪGuest lecturer, Planetary systems undergraduate course, Department of Physics, SUNY-Cortland, Cortland, NY. *Planetary cave exploration: a multifaceted approach* (8 undergraduates).

2014 Instructor, NASA Spaceward Bound!, Mojave Desert Expedition (30 undergraduates).

2014 Guest lecturer, Invertebrate biology course, Department of Biology, Georgia Southern University, Statesboro. *Evolution of cave-adapted arthropods, cave biology, and fieldwork in remote locations* (25 undergraduates).

2013 Instructor, Independent Study (Project: Development of high-resolution image portfolio of cave-dwelling invertebrates), Department of Biological Sciences, NAU, Flagstaff.

2008 Instructor, Independent Study (Project: The effects of temperature and insolation on cave arthropod communities), Department of Biological Sciences, NAU, Flagstaff.

2007-09 Instructor, NASA Spaceward Bound!, Mojave Desert Expeditions (~25 secondary school teachers per year).

2007 Instructor, Cave Biological Inventory, NPS/BLM Cave and Karst Resources Management Training Course, Las Vegas, NV (20 participants).

2007 Instructor, Environmental Ecology (ENV 326), School of Earth Sciences and Sustainable Environments, NAU, Flagstaff (17 students).

2006 Instructor, NASA Spaceward Bound!, Atacama Desert Expedition, Chile (20 secondary school teachers).

K-12 Instruction *(~5,000 students since 2006)*

2025 Ouray School, Ouray, CO. 8th grade. Chasing Canoe Bugs: A South Pacific Odyssey (45 students).

2025 Telluride Intermediate School, Telluride, CO. 5th grade. Chasing Canoe Bugs: A South Pacific Odyssey (50 students).

2025 Ridgway Elementary School, Ridgway, CO. 3rd, 4th, and 5th grades. Chasing Canoe Bugs: A South Pacific Odyssey (65 students).

2025 Olathe High School, Olathe, CO. 9th grade. Chasing Canoe Bugs: A South Pacific Odyssey (28 students).

2024 Voyager Youth Program, Ridgway, Colorado. K-6th, The Hidden World of Cave Biology (~30 students).

2024 Punk Science, Pinhead Institute, Telluride, Colorado. K-6th, The Hidden World of Cave Biology (~18 students).

2024 Glynn Academy High School, Brunswick, GA. Grades 9th–12th, A Global Perspective on Cave Biodiversity (~250 students).

2024 Kiva Montessori School, Cortez, CO. Grades 4th–6th. Belize Cave Biodiversity (43 students).

2024 Nucla High School, Nucla, CO. 10th grade biology class. Belize Cave Biodiversity (20 students).

2024 Nucla Middle School, Nucla, CO. Grades 7th–8th. Belize Cave Biodiversity (32 students).

2024 Telluride Intermediate School, Telluride, CO. 5th grade assembly. Belize Cave Bats and Beasties (60 students).

2024 Montrose High School, Montrose, CO. AP Physics Class (grades 10th–12th). Planetary caves seminar (18 students).

2024 Montrose High School, Montrose, CO. Pizza with Professionals. Grades 9th–12th. 20 Years Underground: Illuminating the Self through Science (25 students).

2024 Telluride Mountain School, Telluride, CO. K-12 assembly. Belize Cave Bats and Beasties (110 students, teachers, and parents).

2022 St. Agnes Anglican Primary School, La Democracia, Belize. 6th grade class. Cave Crocodiles of Runaway Creek Nature Reserve (12 students).

2021 Pinhead Institute, Telluride, Colorado. Three 5th grade classes. On the road with a cave scientist: biodiversity edition (83 students).

2021 Exploring by the Seat of Your Pants. Three classes grades 5th through 8th from Canada. Factors influencing cave biodiversity (~60 students).

2020 Exploring by the Seat of Your Pants. Six classes grades 5th through 8th in Canada and U.S. via Zoom. On the road with a cave scientist (~112 students).

2019 Exploring by the Seat of Your Pants, Space Week. Five classes grades 5th through 8th in Canada and U.S. via Zoom. Cave detection on Earth and future cave exploration on Mars (~150 students).

2019 Naturita Middle School, Naturita, CO. 5th & 6th grade assembly. Around the world with a cave scientist (29 students).

2019 Norwood Elementary School, Norwood, CO. Middle & high school assembly. Around the world with a cave scientist (90 students).

2019 Norwood Elementary School, Norwood, CO. 5th & 6th grade assembly. Around the world with a cave scientist (60 students).

2019 Norwood Elementary School, Norwood, CO. K & 1st grade assembly. Around the world with a cave scientist (16 students).

2019 Belize Zoo Conservation Camp, Tropical Education Center, Belize. High school students from across Belize. Around the world with a cave scientist (25 students).

2019 Telluride Intermediate School, Telluride, CO. 4th grade assembly. On the road with a cave scientist (82 students).

2019 Ridgway Secondary School, Ridgway, CO. 6th through 12th grades. On the road with a cave scientist (53 students).

2019 Ridgway Elementary School, Ridgway, CO. 3rd, 4th, and 5th grades. On the road with a cave scientist (68 students).

2019 Montrose High School, Pizza with Professionals, Montrose, CO. 9th through 12th grades. On the road with a cave scientist (63 students).

2018 Glynn Middle School, Brunswick, GA. 8th Grade AP course: High School Physical Science. Cave detection on Earth and future cave exploration on Mars (15 students).

2018 Kwok Tak Seng Catholic Secondary School, Hong Kong. 11th grade. Cave detection on Earth and future cave exploration on Mars (~125 students, teachers and administrators).

2018 Exploring by the Seat of Your Pants, Space Week. Five classes grades 4th through 8th in Canada and U.S. via Google Hangouts. Cave detection on Earth and future cave exploration on Mars (~100 students).

2018 Telluride Mountain School, Telluride, CO. K-12 assembly. Follow your bliss and other musings of a cave scientist (122 students, teachers, and parents).

2017 Glynn Middle School, Brunswick, GA. 8th Grade AP course: High School Physical Science. Cave Exploration on Mars: Are we there yet? (40 students).

2017 Exploring by the Seat of Your Pants, Space Week. Five classes grades 3rd through 5th in Canada and U.S. via Google Hangouts. Cave Exploration on Mars: How do we get there? (~150 students).

2017 Exploring by the Seat of Your Pants, Biodiversity Week. Eight classes grades 4th through 7th in Canada and U.S. via Google Hangouts. Cave insect evolution, speciation, and diversity (220 students).

2017 BASIS Charter Schools, Flagstaff, AZ. AP 8th and 9th grade assembly. Evolution, speciation, and diversity: A cave perspective (30 students).

2017 Homer Intermediate School, Homer, NY. 5th and 6th grade assembly. How to get humans to Mars. (250 students, faculty and administrators).

2017 Exploring by the Seat of Your Pants. Six classes grades 5th through 8th in Canada and U.S. via Google Hangouts. Caves, contamination, and China (100 students).

2016 DeMiguel Elementary School, Flagstaff, AZ. Two 5th grade classes. Cave Bugs and bats of Northern Arizona (54 students).

2016 Aldea Educativa Escuela Secondaria, Rapa Nui, Chile. Conservación y manejo de los insectos nativas de Rapa Nui (34 students).

2016 Colegio Hermano Eugenio Eyrau, Rapa Nui, Chile. Conservación y manejo de los insectos nativas de Rapa Nui (12 students).

2016 ECC Dunalastair, Santiago, Chile. 11th and 12th Grade Classes. Working with NASA and conservation of threatened cave animals on Rapa Nui. Presented at Tupa Hotel, Easter Island (78 students).

2016 Exploring by the Seat of Your Pants, Space Week. Six classrooms 6th through 8th grades in Canada and U.S. via Google Hangouts. Planetary cave exploration (150 students).

2016 Glynn Middle School, Brunswick, GA. 7th-8th Grade Assembly. Planetary cave exploration (100 students).

2015 Glynn Middle School, Brunswick, GA. 8th Grade AP Physics Class. Robotic and human exploration of caves on the Moon and Mars (46 students).

2014 Cottonwood Elementary School, Cottonwood, AZ. 4th grade assembly. Arizona cave biology (54 students).

2014 DeMiguel Elementary School, Flagstaff, AZ. 6th grade assembly. Scientific exploration of caves (125 students).

2014 Porter-Gaud School, Charleston, SC. Middle school assembly (6th- 8th grade). The mysteries of Easter Island caves (350 students).

2014 Porter-Gaud School, Charleston, SC. High school assembly (9th – 12th grade). Bats and bugs of Grand Canyon (450 students).

2014 Porter-Gaud School, Charleston, SC. AP Marine Science (12th grade) class. Theory of island biogeography and how plants and animals disperse to and across islands (15 students).

2014 Porter-Gaud School, Charleston, SC. Primary school assembly (1st – 5th grade). Cave life on Earth and beyond… (200 students).

2014 Porter-Gaud School, Charleston, SC. AP Environmental Science (12th grade) class. White-nose syndrome, the impacts on bat populations and the importance of bats to both humans and ecosystems (10 students).

2009 Flagstaff Middle School, Flagstaff, AZ. 7th grade. Cave biology and exploration (56 students).

2009 DeMiguel Elementary School, Flagstaff, AZ. 6th grade assembly. Cave science and exploration (80 students).

2008 DeMiguel Elementary School, Flagstaff, AZ. 6th grade assembly. Cave science and exploration (75 students).

2007 DeMiguel Elementary School, Flagstaff, AZ. 6th grade assembly. Cave detection in the thermal infrared and the search for Martian cave life (60 students).

2006 Needlewood Middle School, Brunswick, GA. 6th grade assembly. Astrobiology, Mars and searching for life underground (60 students).

2006 DeMiguel Elementary School, Flagstaff, AZ. 6th grade. Bat ecology and conservation (26 students).

IV. COMMUNICATION & COLLABORATION

Summary

- *Science Communication*: Past 10 years – 15 presentations at scientific symposia, 34 university and agency seminars (*31 invited*), five invited keynotes or other similar engagements, and 37 public lectures (*18 invited*) at museums, universities, government agencies, and other venues in five countries (including six talks in Spanish). Examples: Chicago Ideas Week, Colonizing the Caves of Mars (10/14), and Writers of the Future Awards, Evil Alien Insectoids and Cave Exploration of Mars (04/13).
- *Science Communication Workshops*: Completed two workshops in 2015 – Alan Alda Center for Communicating Science Boot Camp, Stony Brook University, NY and Kavli Institute's Scientist-Writers Workshop, Royal Society, London, England.
- *Collaborations*: Develop, execute, and participate in research projects with teams ranging from two to 10 people; work with friends and colleagues across the U.S. and around the world including Australia, Belize, Chile, China, Mexico, Papua New Guinea, and Spain; and, conducted projects in partnership with numerous Indigenous Peoples – including the Quiché Maya of Belize, the Quechua of the Chilean Altiplano, the Rapanui of Easter Island, Native Hawaiians on Big Island of Hawai'i, and the Navajo of the Southwestern U.S.

Symposia (ᴪ*Invited;* ⚬*Undergraduate student*)

2024 Co-Presenter. 9th Karst Interest Group Annual Meeting, U.S. Geological Survey, Nashville, TN. Titus, T.N., **J.J. Wynne**, M.J. Malaska, and P.J. Boston. Planetary caves—from Mercury to Pluto.

2024 Co-Presenter. Congreso Latinoamericano de Aracnología, Bogotá, D.C. Proud, D.N., ⚬Z. Csikos, C., Disla Polanco, […], **J.J. Wynne**, et al. Phylogenetic relationships of Central American Samoidae (Opiliones: Laniatores) with a new troglobiontic species of *Akdalima* from Belize.

2024 Co-presenter. Undergraduate Research Symposium, Northern Arizona University, Flagstaff. Puckett, K.⚬, F. Ika, L. Gonzelez, […], **J.J. Wynne**. Cliff-dwelling invertebrates of Rapa Nui.

2024 Co-presenter. Undergraduate Research Symposium, Northern Arizona University, Flagstaff. Gilroux, L.⚬, M. Foley⚬, A. Schuh⚬, […], **J.J. Wynne**. Trail camera monitoring of cave use by wildlife, Runaway Creek Nature Reserve, Belize.

2023 ᴪPresenter. Sigma Xi, International Forum on Research Excellence, Long Beach, CA. 20 Years Underground: Illuminating the Self through Science.

2023 Co-presenter. National Speleological Society Convention, Elkins, WV. Mylroie, J.E. & J.J. Wynne. On the definition of a cave in solar system exploration.

2023 Co-presenter. Bahamas Research Symposium, San Salvador, Bahamas. Mylroie, J.E. & J.J. Wynne. The Bahamas as a model for solar system caves.

2023 Co-presenter. Undergraduate Research Symposium, Northern Arizona University, Flagstaff. Gilroux, L.⚬, F. Ika, & **J.J. Wynne**. Cave-dwelling arthropods of Rapa Nui, Chile.

2023 Co-presenter. Undergraduate Research Symposium, Northern Arizona University, Flagstaff. Langran, S.⚬, J. Vandenberg, […], & **J.J. Wynne**. Bat richness and activity at earth crack caves, Wupatki National Monument, Arizona.

2022 Co-presenter. Malaska, M.J., A. Schoenfeld, **J.J. Wynne**, et al. Geological Society of America, New Frontiers in Cave and Karst Research Session, Denver, CO. Caves on Saturn's Moon Titan.

2020 Co-presenter. Phillips-Lander, C.M., […], **J.J. Wynne**, et al. AGU Fall Meeting, San Francisco, CA. MACIE: Mars Astrobiological Caves and Internal Habitability Explorer (a New Frontiers Mission Concept) for the next decade.

2020 Co-presenter. Geological Society of America, Connections Online (Topical Sessions). ᴪTitus, T.N., **J.J. Wynne**, P.J. Boston, C.M. Phillips-Lander, & L.A. Kerber. Planetary Caves—Goals, objectives, and an exploration roadmap for the next decade.

2020 Co-presenter. Mars Exploration Program Analysis Group, NASA Jet Propulsion Laboratory, Pasadena, CA. Phillips-Lander, C.M., **J.J. Wynne**, N. Chanover, C. Demirel-Floyd, K. Uckert, K. Williams, T.N. Titus, J. Blank, P. Boston, K. Mitchell, A. Kereszturi, J. Martin-Torres, D. Wyrick, S.

Shkolyar, & K. Retherford. Mars Astrobiological Cave and Internal habitability Explorer (MACIE): A New Frontiers Mission Concept.

2020 Co-presenter. Undergraduate Research Symposium (Virtual), Northern Arizona University, Flagstaff. Hershauer, S.N.°, **J.J. Wynne**, & F.M. Walker. Genetic evidence for subterranean dispersal of two relict Collembola species from Sierra de las Nieves Natural Park, Andalucía, Spain.

2020 Co-presenter. Undergraduate Research Symposium (Virtual), Northern Arizona University, Flagstaff. Redmond, Q.J.A.°, D. Hedman°, S. Reneau, G. Welch, R. Cal, & **J.J. Wynne**. Subterranean arthropods of Runaway Creek Nature Reserve, Belize.

2020 Co-presenter. Undergraduate Research Symposium (Virtual), Northern Arizona University, Flagstaff. Hershauer, S.N.°, J.R. Baca°, S. Yancovic Pakarati, & **J.J. Wynne**. Notes on the invertebrate fauna of Salas y Gómez island, Chile.

2020 Co-presenter. Titus, T.N., **J.J. Wynne**, & C.M. Phillips-Lander. 3rd International Planetary Caves Conference, San Antonio, TX. Proposed mission architecture and technology requirements for robotic and human exploration of martian caves.

2020 Co-presenter. 3rd International Planetary Caves Conference, San Antonio, TX. Phillips-Lander, C.M., **J.J. Wynne**, A. Parness, et al. MACIE: Mars Astrobiological Caves and Internal Habitability Explorer (Mission Concept).

2018 Co-presenter. 24th International Conference on Subterranean Biology, Aveiro, Portugal. Komericki, A., L., Deharveng, **J.J. Wynne**, & S. Khela. Conservation efforts for cave invertebrates and their habitats in Southeast Asia.

2015 Presenter. 2nd International Planetary Caves Conference, Flagstaff, AZ. Detecting terrestrial caves by applying topographic analysis techniques to thermal imagery.

2015 Presenter. UNESCO and International Research Center on Karst, International Training Course on Karst Landscape, Geopark, and Natural Heritage, Nanning, China. Terrestrial cave detection in the tropics using topographic analytical techniques.

2014 Presenter. North American Congress for Conservation Biology, Society of Conservation Biology, Missoula, MT. Ecological catastrophies and relict cave fauna: A case study from Rapa Nui.

2011 Presenter. 8th International Conference on Easter Island and the Pacific, Santa Rosa, CA. Diversity and community structure of cave-dwelling arthropods on Rapa Nui.

2010 Co-presenter. Society of American Archaeologists Annual Meeting, St. Louis, Missouri, Nicolay, S., S. Rapu, & **J.J. Wynne**. The underground gardens of Easter Island: Cave agriculture, water management, and prehistoric cave use on Rapa Nui.

2009 Co-presenter. Space Explorers Educators Conference, NASA-Johnson Space Center, Houston TX. D.J. Loewen, D. Wray, & **J.J. Wynne**. To live and work on Mars: project update.

2008 Co-presenter. 104th Cordilleran Section and 60th Rocky Mountain Section Joint Meeting, Geological Society of America, Las Vegas, NV. Halliday, W.R. & **J.J. Wynne**. Differentiating lava tube skylights from pit craters: A study of the cave-like structures on Arsia Mons, Mars.

2008 Co-presenter. Astrobiology Science Conference 2008, SETI Institute, Santa Clara, CA. Azúa-Bustos, A., C. Gonzáles, R. Vicuña, **J.J. Wynne**, & C.P. McKay. Possible cave-limited cyanobacteria from the Atacama Desert, Chile.

2008 Co-presenter. Space Explorers Educators Conference, NASA-Johnson Space Center, Houston TX. D.J. Loewen, D. Wray, & **J.J. Wynne**. To live and work on Mars.

2007 ΨPresenter. 9th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ. Regional Cave all taxa biological inventory.

2007 Presenter. 9th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ. A comparison of cave-dwelling invertebrate communities from the North Rim and interior Grand Canyon.

2007 Presenter. 10th Annual Mars Society Conference, Los Angeles, CA. Wynne, J.J., G.E. Cushing, T.N. Titus, M.G. Chapman, C.A. Drost, R.S. Toomey III, M.D. Jhabvala, P.J. Boston, G. Chong Diaz, K. Peterson, & R. Harter. Thermal behavior of Earth caves and pit craters on Arsia Mons, Mars.

2007 ψPresenter. National Speleological Society Convention, Marengo, IN. Wynne, J.J. N.A. Cabrol, P.J. Boston, G.E. Cushing, T.N. Titus, C.A. Drost, R.S. Toomey III & R. Harter. Mars analogue sites and their importance in the search for caves on Mars.

2007 ψPresenter. National Speleological Society Convention, Marengo, IN. Wynne, J.J., G.E. Cushing, T.N. Titus, M.G. Chapman, C.A. Drost, R.S. Toomey III, M.D. Jhabvala, P.J. Boston, G. Chong Diaz, K. Peterson, J.E. Moresch, J. Thompson, & R. Harter. Thermal behavior of Earth caves and possible cave-like structures on Mars.

2006 Co-presenter. National Speleological Society – Southwest Regional Technical Meeting, Socorro, NM. Boston, P.J., S. Dubowsky, J. S. Plante, **J.J. Wynne**, J. Thompson, & F. Prinz. The search for caves on other planets: new technologies from hot holes in the ground to hopping microbots.

2006 Presenter. National Speleological Society Annual Convention, Bellingham, WA. Wynne, J.J., K.D. Voyles, & C.A. Drost. Cave ecological inventory and species discoveries, Grand Canyon-Parashant National Monument, Arizona.

2006 Presenter. National Speleological Society Annual Convention, Bellingham, WA. Wynne, J.J., M.G. Chapman, C.A. Drost, J.S. Kargel, J. Thompson, T.N. Titus, & R.S. Toomey, III. Cave detection on Mars- astrobiology and the search for life.

2006 ψPresenter. National Speleological Society Annual Convention, Bellingham WA. Wynne, J.J. & W. Pleytez. Species inventory and sensitive ecological areas of Actun Chapat Cave, Vaca Plateau, Belize.

2006 Presenter. Natural Areas Conference, Flagstaff, AZ. Wynne, J.J. K.D. Voyles, & C.A. Drost. Cave ecological inventory and species discoveries, Grand Canyon-Parashant National Monument, Arizona.

Poster Presentations (°*undergraduate student author*)

2021 Co-presenter. 52nd Lunar and Planetary Science Virtual Conference. Kearney, M.L.°, J.J. Wynne, G.E. Cushing, N.M. Bardabelias, & N.G. Barlow. Robotic exploration potential of Martian caves.

2020 Co-presenter. 27th Annual The Wildlife Society Conference, Special Session: GIS in Wildlife Ecology, Louisville, KY. Jenness, J., **J.J. Wynne**, D.L. Sonderegger, T.N. Titus, & M.D. Jhabvala. Detecting caves with thermal imagery and topographic analysis techniques.

2019 Co-presenter. 4th IUCN Species Survival Commission Leaders' Meeting, Abu Dhabi, UAE. Deharveng, L., T. Whitten, **J.J. Wynne**, A. Komericki, & S. Khela. 10 Years of Progress: The IUCN-SSC Cave Invertebrate Specialist Group.

2018 Co-presenter. 24th International Conference on Subterranean Biology, Aveiro, Portugal. Deharveng, L., T. Whitten, **J.J. Wynne**, A. Komericki, & S. Khela. The IUCN-SSC Cave Invertebrate Specialist Group.

2015 Co-presenter. Division of Planetary Sciences, American Astronomical Society, National Harbor, MD. MacKenzie, S.M., **J.J. Wynne**, et al. THEO concept mission: testing the habitability of Enceladus's ocean.

2011 Co-presenter. 1st Interplanetary Cave Research Workshop, Carlsbad, NM. Titus, T.N., **J.J. Wynne**, M.D. Jhabvala, G.E. Cushing, P. Shu, & N.A. Cabrol. Cave detection using oblique thermal imaging.

2011 Co-presenter. 1st Interplanetary Cave Research Workshop, Carlsbad, NM. Ruby, D., **J.J. Wynne**, & T.N. Titus. Novel volumetric cave mapping process using existing technologies.

2011 Co-presenter. 42nd Annual Lunar and Planetary Science Conference, Houston, TX. Newcomer, K.B., J. Moersch, N.A. Cabrol, E. Grin, **J.J. Wynne**, & M. Chojnacki. Evaluation of a proposed technique for identifying Martian caves in THEMIS infrared images.

2010 Co-presenter. Astrobiology Science Conference, Mountain View, CA. Azúa-Bustos, A., C. González-Silva, L. Salas, **J.J. Wynne**, C.P. McKay, R.E. Palma, & R. Vicuña. Atacama Desert caves as analog

models of habitability for microbial life on the surface of Mars.

2010 Co-presenter. 41st Annual Lunar and Planetary Science Conference, Houston, TX. Titus, T.N., **J.J. Wynne**, D. Ruby, & N.A. Cabrol. The Atacama Desert cave Shredder: A case for conduction thermodynamics.

2009 Presenter. 40th Annual Lunar and Planetary Science Conference, Houston, TX. Wynne, J.J., T.N. Titus, M.D. Jhabvala, G.E. Cushing, N.A. Cabrol, & E.A. Grin. Distinguishing caves from non-cave anomalies: lessons for the Moon and Mars.

2008 Co-presenter. 59th Annual Astronautical Congress, Glasgow, Scotland. Allner, M.M., C.P. McKay, L.K. Coe, J. Rask, J. Paradise, & **J.J. Wynne**. NASA's Explorer School and Spaceward Bound! Programs: Engaging, educating and inspiring students, parents and communities to support international space initiatives.

2008 Presenter. 39th Annual Lunar Planetary and Science Conference, League City, TX. Wynne, J.J., T.N. Titus, C.A. Drost, R.S. Toomey III, & K. Peterson. Annual thermal amplitudes and thermal detection of Southwestern U.S. caves: Additional insights for remote sensing of caves on Earth and Mars.

2007 Presenter. 38th Annual Lunar Planetary and Science Conference, League City, TX. Wynne, J.J., T.N. Titus, M.G. Chapman, G. Chong, C.A. Drost, J.S. Kargel, & R.S. Toomey III. Thermal behavior of Earth caves: a proxy for gaining inference into Martian cave detection.

2007 Co-presenter. 38th Annual Lunar Planetary and Science Conference, League City, TX. Cushing, G.E., T.N. Titus, **J.J. Wynne**, & P.R. Christensen. THEMIS observes possible cave skylights on Mars.

University & Agency Seminars (Ψ*Invited*)

2024 ΨThe Citadel, Charleston, SC. A Global Perspective on Cave Biodiversity (audience 22).

2024 ΨThe College of Charleston, Charleston, SC. Belize Cave Biodiversity (audience 54).

2023 ΨSigma Xi, International Forum on Research Excellent, Long Beach, CA. 20 Years Underground: Illuminating the Self through Science (audience 10).

2020 ΨNorthern Arizona University, School of Earth Science and Sustainability, Flagstaff, AZ. Addressing knowledge shortfalls in subterranean biology (audience 12).

2019 ΨSUNY-Cortland, Cortland, NY. Cave and bat conservation in the new Maya Forest Corridor, Belize (audience 41).

2018 ΨTohoku University, Department of Engineering and Space Robotics, Sendai, Japan. Terrestrial cave detection and future robotic and human exploration of caves on Mars (audience 45).

2018 ΨTohoku University, Department of Geosciences, Sendai, Japan. Terrestrial cave detection and future robotic and human exploration of caves on Mars (audience 78).

2018 ΨHebei University, College of Life Sciences, Baoding, China. Towards an iterative vulnerability assessment of cave biota: South China Karst, a case study (audience 200).

2018 ΨXishuangbanna Tropical Botanical Gardens, Xishuangbanna, China. Towards an iterative vulnerability assessment of cave biota: South China Karst, a case study (audience 22).

2018 ΨInternational Research Center on Karst, Guilin, China. International Training Course on Karst Ecological Geology and Karst Landform. Towards an iterative vulnerability assessment of cave biota: South China Karst, a case study (audience 42).

2018 ΨSUNY-Cortland, Cortland, NY. Caves, contamination and environmental reform in China (audience 30).

2017 ΨMuseo Nacional de Ciences Naturales, Madrid, Spain. Los insectos endémicos y hábitats relictos de Rapa Nui (audience 20).

2017 ΨUniversity of the Aegean, Mytilini, Lesvos, Greece. Detecting Caves on Earth and the Future of Cave Exploration on Other Planets (audience 10).

2017 ΨSUNY-Cortland, Cortland, NY. Inventory, conservation and management of endemic insects of Easter Island (audience 65).

2016 ψChina University of Geosciences at Wuhan, Department of Environmental Studies, Hubei, China. Human Induced Environmental Change and the Effects on Cave Ecosystems: A China Case Study (audience 9).
2016 ψChina Geological Survey, Wuhan Center, Wuhan, Hubei, China. Terrestrial Cave Detection: Advancing the Technology in Southern China (audience 10).
2016 ψChina Geological Survey, Wuhan Center, Wuhan, Hubei, China. Human Induced Environmental Change and the Effects on Cave Ecosystems: A China Case Study (audience 16).
2016 ψSouthwest University, Department of Geographical Sciences and Karst Environment Laboratory, Chongqing, China. Human Induced Environmental Change and the Effects on Cave Ecosystems (audience 26).
2016 ψInternational Research Center on Karst Training Course, Guilin, Guangxi, China. Preliminary Results: Troglobite Inventory and Contaminant Sampling of Guilin Caves, Guangxi, China. (audience 38).
2016 ψInternational Research Center on Karst Training Course, Guilin, China. Human Induced Environmental Change and the Effects on Cave Ecosystems. (audience 38).
2016 Universidad Metropolitana de Ciencias de la Educación, Instituto de Entomología, Santiago, Chile. Los insectos endémicos y hábitat antiguos de Rapa Nui (audience 60).
2016 ψUniversidad de Chile, Ciencias Forestales y Conservación de la Naturaleza, Santiago, Chile. Conservación y manejo de los insectos endémicos y hábitat antiguos de Rapa Nui. (audience 55).
2016 ψParque Nacional Rapa Nui, CONAF, Easter Island. Inventario, conservación y manejo de los insectos endémicos de Rapa Nui (audience 15).
2016 ψParque Nacional Rapa Nui, CONAF, Easter Island. La carrera para salvar los insectos endémicos de Rapa Nui (audience 20).
2016 ψSUNY-Cortland, Cortland, NY. The race to save the endemic insects of Easter Island (audience 120).
2015 ψJapanese Aerospace Exploration Agency (JAXA), Planetary Caves Research Group, Sagamihara, Japan. Terrestrial Cave Detection: Implications for Planetary Cave Exploration and Human Habitation (audience 6).
2015 ψU.S. Fish and Wildlife Service, Pacific Islands Fish and Wildlife Office, Honolulu, HI. Conservation and management of cave arthropods on Rapa Nui (audience 30).
2015 ψNorthern Arizona Bat Working Group, Flagstaff, AZ. Bat hibernacula of Northern Arizona (audience 15).
2015 ψInstituto Geológico y Minero de España, Madrid, Spain. Robotic exploration and human habitation of Martian caves (audience 25).
2014 San Diego State University, Department of Biology, San Diego, CA. Disturbance relicts in a changing world: The Rapa Nui factor (audience 40).
2014 Armstrong State University, Department of Biology, Savannah, GA. The mysteries of Easter Island caves (audience 50).
2014 ψGeorgia Southern University, Statesboro, GA. The Mysteries of Easter Island Caves (audience 110).
2013 ψCoconino Community College, Flagstaff, AZ. The Mysteries of Easter Island Caves.
2011 ψCorporación Nacional Forestal de Chile, Parque Nacional Rapa Nui, Easter Island, Chile. Implicaciones para la conservación y manejo de las cuevas en Rapa Nui.
2011 ψUniversidad de Los Andes, Santiago, Chile. Detección de las cavernas en los Desiertos de Atacama y Mojave: Terrenos análogos a Marte.
2011 ψMuseo Mirador de la Biodiversidad, Monumento Natural La Portada, Antofagasta, Chile. Cuevas del Cordillera de la Sal, Una analogía para Marte.

2011 ♆Universidad Católica del Norte, Centro de Biotecnología, Antofagasta, Chile. Las cavernas del Desierto de Atacama, una analogía para Marte.

2009 ♆National Park Service, Hawaii Volcanoes National Park, Volcano, HI. Biological and cultural resources of Easter Island caves (audience 5).

2008 ♆Pontificia Universidad Católica de Chile, Facultad de Ciencias Biológicas, Departamento de Genética Molecular y Microbiología, Santiago. On Detecting caves on Earth and cave-like structures on Mars.

Keynote Addresses & Other Invited Talks (♆*Invited*)

2014 ♆STEM City Awards Banquet, Flagstaff, AZ (*Keynote*). Imagination and creativity in science (audience 130).

2014 ♆Chicago Ideas Week, Explorers Section, Chicago, IL. Robotics and human use of lunar and Martian caves (audience 350).

2013 ♆Celebrity Cruises, Beyond the Podium Series, World Explorers Bureau, 7 Day Caribbean Sea Tour.

2013 ♆29th Annual Writers and Illustrators of the Future Awards Dinner, Hollywood, CA (Keynote;). Evil alien insectoids and cave exploration on Mars (audience 1,200).

2011 ♆National Association of Science Writers, 2011 Annual Meeting, Flagstaff, AZ. Covering a lot of (Under)Ground: Cave ecology on Earth and caves on Mars.

2009 ♆104th Explorers Club Annual Dinner, Waldorf=Astoria Hotel, New York, NY. THE BALANCING ACT: Exploring Biodiversity, Expedition flag return/ presentation on cave diversity.

Departmental Seminars

2016 Northern Arizona University, Department of Biology, Flagstaff, AZ. Island-wide Inventory for Endemic Insects Extreme Environments on Rapa Nui.

2014 Northern Arizona University, Department of Biology, Flagstaff, AZ. Things that go bump in the dark (of caves): bats, relict species, and other creepy crawlies (Halloween seminar).

2007 Northern Arizona University, Department of Biological Sciences, Flagstaff, AZ. Presentation: Astrobiological implications for detecting caves on Mars.

2006 Northern Arizona University, Department of Biological Sciences, Flagstaff, AZ. Sensitive ecological areas and species inventory of Actun Chapat, Vaca Plateau, Belize.

Public Lectures (♆*Invited*)

2024 Flagstaff Festival of Science, Flagstaff, AZ. Chasing Canoe Bugs: A South Pacific Odyssey (audience 24).

2024 Darwin 200, Rapa Nui – Mangareva Voyage, South Pacific Ocean. Cave-dwelling Animals of Xibalba: Archaeology Edition (audience 6).

2024 Darwin 200, Rapa Nui – Mangareva Voyage, South Pacific Ocean. 20 Years Underground: Illuminating the Self through Science (audience 10).

2024 Darwin 200, Rapa Nui – Mangareva Voyage, South Pacific Ocean. A Global Perspective on Cave Biodiversity (audience 16).

2023 ♆Flagstaff Festival of Science (SCI Talks), Flagstaff, AZ. 20 Years Underground: Illuminating the Self through Science (audience 43).

2020 Flagstaff Festival of Science, Flagstaff, AZ. Bat and cave conservation in the new Maya Forest Corridor, Belize (virtual seminar).

2020 Exploring by the Seat of Your Pants, Global Biodiversity Festival. Going deep! Cave biodiversity (virtual seminar; audience 30).

2020 ♆Museum of Northern Arizona, Colton Seminar Series, Flagstaff, AZ. Addressing knowledge shortfalls in subterranean ecology (virtual seminar; audience 15).

2020 [ψ]Science on Tap, Flagstaff, AZ. Bat and cave conservation in the new Maya Forest Corridor, Belize (audience 62).
2019 Flagstaff Festival of Science, Flagstaff, AZ. Finding caves on Earth and future robotic and human exploration of Mars (audience 65).
2019 Highlands Center for Natural History, Prescott, AZ. Cave ecology of the Grand Canyon region (audience 25).
2018 [ψ]Royal Geographical Society of Hong Kong, Hong Kong. Terrestrial cave detection and future robotic and human exploration of Mars (audience 23).
2018 [ψ]Flagstaff Festival of Science, Flagstaff, AZ. Caves, contaminants, and environmental change in China (audience 30).
2018 [ψ]The Explorers Club, New York, NY. Caves, contaminants, and environmental reform in China (audience 25).
2017 [ψ]Sociedad Excursionista de Málaga, Málaga, Spain. Los insectos endémicos y hábitats relictos de Rapa Nui (audience 25).
2017 Science on Tap, Flagstaff, AZ. Caves, Contamination, and China (audience 67).
2016 Brunswick-Glynn County Library, Brunswick, GA. The bizarre cave animals of Guangxi, China (audience 30).
2016 Museo Nacional de Historia Natural, Santiago, Chile. Los insectos endémicos y hábitat antiguos de Rapa Nui (audience 45).
2016 [ψ]Museo Antropológico Padre Sebastián Englert, Rapa Nui (Easter Island). Inventario, conservación y manejo de los insectos endémicos de Rapa Nui (audience 37).
2016 [ψ]Explora Hotel, Easter Island. Conservación y gestión de las cuevas y biología de cueva en Rapa Nui (Isla de Pascua). Lecture to tourist guides. (audience 8).
2016 Science on Tap, Flagstaff, AZ. The race to save the endemic insects of Easter Island (audience 55).
2016 Brunswick-Glynn County Library, Brunswick, GA. Cave life of the greater Grand Canyon (audience 35).
2015 Bishop Museum, Honolulu, HI. New discoveries and novel ideas from Rapa Nui caves (audience 30).
2015 Explorers Connect, London, England. New discoveries and novel ideas from Rapa Nui caves (audience 100).
2015 The Explorers Club, New York, NY. Discoveries from Rapa Nui caves: New species and novel ideas (audience 125).
2015 Arizona Science Center, Phoenix, AZ. Arizona cave biology (audience 20).
2014 [ψ]Science on Tap, Flagstaff, AZ. Cave life of the greater Grand Canyon (audience 100).
2014 [ψ]Southern California Chapter, The Explorers Club, San Diego, CA. The mysteries of Easter Island caves (audience 60).
2014 [ψ]Atlanta Chapter, The Explorers Club, Atlanta, GA. The mysteries of Easter Island caves (audience 30).
2014 Science Café, Bookman's Entertainment Exchange, Flagstaff, AZ. Roundtable discussion on Research on Rapa Nui (Easter Island).
2014 [ψ]World Explorers Bureau Beyond the Podium Series, Celebrity Cruises (roundtrip San Juan, PR to Barbados). 3 Presentations: (1) The mysteries of Easter Island's caves; (2) Cave life of the Greater Grand Canyon, and (3) Cave detection on Earth and Mars.
2013 Science on Tap, Flagstaff, AZ. The mysteries of Easter Island caves (audience 138).
2013 National Speleological Society Webinar Series. The mysteries of Easter Islands caves.

2012 Flagstaff Festival of Science, After School Lecture Series, Lowell Observatory, Flagstaff, AZ. The biology and archaeology of Easter Island caves (audience 84).

2011 ψMuseo Antropológico Padre Sebastián Englert, Easter Island. Las cuevas de Rapa Nui y implicaciones para la conservación y manejo.

2011 Brunswick-Glynn County Library, Brunswick, GA. The archaeology and ecology of Easter Island caves (audience 50).

2011 ψEarthWatch Institute, Easter Island, Chile. The caves of Rapa Nui and implications for conservation and management (audience 10).

2011 Patagonia (Store), Las Condes, Santiago, Chile, Las cuevas de Rapa Nui (audience 4).

2011 ψSierra Club, Grand Canyon Chapter, Flagstaff, AZ. Cave life of the Greater Grand Canyon (audience 25).

2011 Explorers Club, Southwest Chapter Lecture Series, Flagstaff, AZ. The ecology and archaeology of Easter Island caves (audience 10).

2010 Flagstaff Festival of Science, Science in the Park, Flagstaff, AZ. Discussed the importance of caves, cave-dwelling arthropods and bats, as well as caving ethics and the fragility of cave resources with the general public (interacted with ~100 individuals).

2010 ψBishop Museum, Honolulu, Hawaii. Bishop Museum and Sigma Xi Seminar Series. Biological and cultural resource investigations of Rapa Nui.

2009 ψMuseo Antropológico Padre Sebastián Englert, Rapa Nui. Resultados preliminar: Natural y cultural historia de las cuevas de Rapa Nui.

2009 ψExplorers Club Headquarters, New York City, NY. Flag Expedition Presentation, 104th Explorers Club Annual Dinner Weekend, Sunday Lecture Series. Cave biodiversity inventories on North Rim Grand Canyon and Rapa Nui, Chile (audience 1000).

2008 Flagstaff Festival of Science, Evening Lecture Series, Lowell Observatory, Flagstaff, AZ. Caves on Earth and Mars: The search for life (audience 40).

2008 Lowell Observatory, Flagstaff, AZ. Thermal detection of caves on Earth and cave-like structures on Mars (audience 35).

2007 Three Rivers Regional Library Lecture Series, Brunswick, GA. Thermal detection of caves on Earth and cave-like structures on Mars (audience 25).

2007 Flagstaff Festival of Science, Science in the Park, Flagstaff, AZ. Caves, cave-dwelling arthropods and bats and the importance of conserving these fragile places (~100 community members).

2007 ψLowell Observatory, Flagstaff, AZ. If there's life, it's underground! The search for caves on Mars (audience 60).

2006 The Mission Gallery and Coffee House, Grants, NM. Astrobiology and the search for Martian cave life (audience 10).

2006 Flagstaff Festival of Science, Evening Lecture Series, AZ. Astrobiology and the search for Martian cave life (audience ~45).

2006 ψFlagstaff Cultural Partners Annual Fundraiser, AZ. Cave-adaptation and cave-dwelling animals of Arizona and Belize (audience ~55).

2006 ψUSGS-Flagstaff Field Center Monthly Lecture Series, Flagstaff, AZ. Sensitive ecological areas and species inventory of Actun Chapat, Vaca Plateau, Belize (audience 30).

V. POPULAR PRESS

Summary

Media Outreach: My research has been featured on the Discovery Channel, NASA-TV, four national magazines in the U.S., France and Finland, National Geographic, Discover Magazine, The Washington Post, El Mercurio de Santiago, South China Morning Post, and TV, radio, and print media around the world. Media highlights: (1) Darwin 200, Conservation of endemic insects on Rapa Nui (06/24), (2)

Hawai'i Public Radio, Bugs found in Hawai'i and Rapa Nui may have hitched a ride on voyaging canoes (06/24), (3) The Washington Post, How a dropped bag of Cheetos had 'world changing' impact on life in a cave (09/2024), and (4) KNAU Arizona Public Radio, Brain Food: New cave species from southern China (06/18).

Television/Video Production

- Trail Mix'd, Arizona PBS, Hidden Gems, hiking trails off the beaten path (01.16.2025)
- Darwin 200, Conservation of endemic insects on Rapa Nui (07.03.2024).
- Tecnociencia, Canal 13, Santiago, Chile. Rapa Nui Parte 3, Interview discussing Rapa Nui endemic insects project (10.09.2016).
- Mate Ote TV, Rapa Nui, Investigación insectos endemicos de Rapa Nui, Parque Nacional Rapa Nui, CONAF (09.11.2016).
- Inside NAU, The Television Show, Northern Arizona University, Flagstaff, Jut Wynne discusses the importance of finding relict insect species in Easter Island caves (05.07.2014).
- Channel 12, Phoenix, NBC Affiliate, NAU researcher discovers nine new cave critters (10.18.2013).
- NASA TV, This Week @ NASA, A cave researcher studies caves from a NASA aircraft (06.03.2011).
- Discovery Channel, Daily Planet, Digging for life (05.24.2011).
- Noticias Canal 5, Madrid, Spain (in Spanish), Natural and cultural history of Rapa Nui caves (09.28.2008).
- Inside NAU, The Television Show, Northern Arizona University, Flagstaff, J. Judson Wynne discusses recent discovery of new millipede genus in northern Arizona caves (04.04.2007).

Podcasts

- Onset Computer Corp. Interview: How hard is it to affix a data logger to the wall of a cave? (06.13.2013).
- Planetary Society Radio, Jut Wynne in the caves of the Atacama (08.18.2008).

Radio

- Hawai'i Public Radio, Bugs found in Hawai'i and Rapa Nui may have hitched a ride on voyaging canoes (06.28.2024)
- KNAU Arizona Public Radio, Brain Food: New cave species from southern China (06.21.2018).
- Radio Manukena, 88.9 FM, Rapa Nui (Easter Island), Programa de Consejo de Monumentos. Discussion on Rapa Nui endemic insects project (09.05.2016).
- Radio Manukena, 88.9 FM, Rapa Nui (Easter Island), Programa de CONAF. Discussion on Rapa Nui endemic insects project (09.12.2016).
- KNAU Arizona Public Radio, Brain Food: Protecting Easter Island's newly discovered cave-dwelling bugs (11.26.2015).
- KTAR, 92.3 FM News Talk Radio, Interview on *Eleodes wynnei* (7.31.2012).
- KNAU Earth Notes, Arizona Public Radio (NPR Affiliate), Flagstaff, Life in a lava tube (05.26.2010).
- Arizona Public Radio News (NPR Affiliate), Flagstaff, AZ - New millipede genus discovery (03.20.2007).
- Arizona Public Radio News (NPR Affiliate), Flagstaff, AZ, Local caves may hold Martian life secrets (05.18.2007).
- KJZZ Phoenix 91.5 FM NPR News, Zooming in on Mars (11.14.2007).
- KNAU Earth Notes, Arizona Public Radio (NPR Affiliate), Flagstaff, J. Judson Wynne and New Cricket Discovery (08.2006).

Magazine

- Easter Island's last endemics flirt with extinction, Discover Magazine 38 (4): 24–26 (May 2017).
- Endemic arthropods of Rapa Nui, Moe Varua, Rapa Nui 106: 3–6 (December 2016).

- Cave ecological inventory on Grand Canyon-Parashant National Monument, Inside Earth 15 (1): 17 (Spring 2012).
- Spelean Spotlight: An interview with J. Judson Wynne, National Speleological Society News 69 (8): 26-30 (08.2011).
- Tähdet Ja Avaruus (Finnish Astronomy Magazine), Luolatutkija tähyää Marsiin (*A Cave Researcher Looks at Mars*), Pp. 14-19 (02.2011).
- Mars 2010: Déserts, La face cachée des terres les plus arides: Désert de L'Atacama, Chili, Avant d'explorer Mars… Science et Vie (Paris, France,): 79 (03.2010).
- Cave man scientist and wannabe astronaut Jut Wynne makes time for trails, TrailRunner Magazine, 62: 28 (11.2009).
- Relict species of Rapa Nui, Flag No. 52, The Explorers Journal, 87 (2): 47 (Summer 2009).
- USA Today, Open Air Magazine, Rock of ages (04.21.2009).
- Machen Sie 1hr Testament (article about The Explorers Club), FELD Hommes (German men's magazine): 60-67 (Winter 2008).
- Cave life in abundance, Descent Magazine (Abergavenny, United Kingdom): 5 (04.2007).

Newspaper

- The Washington Post, How a dropped bag of Cheetos had 'world changing' impact on life in a cave (09.10.2024)
- La Tercera de Santiago, Chile, p 42-43, Los nuevos inquilinos de Isla de Pascua (05.09.2017).
- The Brunswick News, Brunswick, GA, p A2, Cave man from Glynn to give lecture at library (04.11.2016).
- El Mercurio de Santiago, Chile, A9, Hallan ocho nuevas especies de insectos en cuevas de Isla de Pascua (07.18.2014).
- El Mercurio de Santiago, Chile, A14, Especie endémica acaba de ser bautizada en honor de padre de familia pascuense (10.10.2013).
- The Brunswick News, Brunswick, GA, p 2A, World explorer makes trip home (12.15.2011).
- El Mercurio de Santiago, Chile, p. 6, El "hombre de las cavernas" lanza un llamado de alerta (08.06.2011).
- The Dryden X-Press (NASA Dryden Weekly Newsletter), Cave detection on Earth, the moon and Mars, technique could be used, Vol. 53, No. 10, p. 1, 8. (06.03.2011).
- El Mercurio de Santiago, Chile, p. C13, NASA prepara vuelos tripulados a Marte en cavernas de Atacama (05.10.2009).
- El Mercurio de Santiago, Chile, p. C11, Cavernas del desierto de Atacama son el nuevo laboratorio de pruebas de la NASA (08.03.2008).
- El Mercurio de Antofagasta, Chile, Preparan viajes a Marte en cuevas de la región (07.29.2008).
- Arizona Daily Sun Newspaper, Flagstaff, Climate research goes underground, A1 & A6 (11.14.2007).
- The Washington Post, New millipedes found in caves (03.12.2007).
- Arizona Daily Sun Newspaper, Flagstaff, p. A2 "Caves, not canals, for life on Mars?" (03.30.2007).
- USA Today, Researchers discover new type of cricket (07.26.2006).

Web Media

- The NAU Review, NAU ecologist joins Darwin-inspired expedition in Polynesia (06.13.2024)
- The NAU Review, Planting a Flag at Jungle Boot Camp (08.29.2023)
- USGS, Caves across the solar system (01.17.2023)
- SpaceRef, Space exploration goes underground (11.22.2022)
- Newsweek, Cave-dwelling crocodiles could shed light on Maya reverence for the predators (02.25.2022)
- NAU News, An unexplored world right beneath our feet (06.15.2021)

- South China Morning Post, Hong Kong, Inside China's caves, where untold animal, plant species could go extinct before being discovered (03.22.2019).
- Plataforma Científica, Científico descubre nuevas especies de insectos en cavernas de Rapa Nui (09.24.2016).
- Island Conservation, Saving Easter Island's last native species (08.08.2016)
- Discover Magazine, Extinction looms for Easter Island's remaining native species (07.19.2016).
- Ripcord Travel Protection, Scientist searches for native insects in Polynesia (04.07.2016).
- NAU News, Researcher's Fulbright fellowship to shed light on cave ecology (01.29.2016).
- The Guardian, Asia's fragile caves face growing development risks (12.18.2014).
- Live Science, Two new pseudoscorpion species discovered in Grand Canyon cave (12.10.2014).
- National Geographic, New eyeless fungus beetle found in cave, Mollie Bloudoff-Indelicado (09.25.2013).
- Live Science, Eight quirky new species discovered in New Mexico lava tubes, Laura Poppick (09.10.2013).
- Mikaelstranberg.com, Interview: Caving; get involved with Jut Wynne, Explorer Mikael Stranberg (10.26.2012).
- NBC News, New beetle species found in remote Arizona cave (07.30.2012).
- Expedition News, Vol. 19, No. 3, Trip report: bat hibernacula monitoring and habitat Characterization Project (03.2012).
- NASA-Dryden, NASA aircraft aids Earth-Mars cave detection study, Beth Hagenauer (05.12.2011).
- Our Amazing Planet, New species discovered on environmentally damaged Easter Island (10.13.2010).
- Discovery Channel, Student Science Blog; Water found in Earth's driest place (08.09.2008).
- Live Science, Incredible discoveries Made in remote caves, Robert Roy Britt (07.31.2008).
- Science Daily, Tiny bug found in Grand Canyon region cave suggests big biodiversity (04.08.2008).
- MSNBC, New albino millipedes discovered: 'Living fossils' will help researchers understand how life evolved in caves (03.01.2007).
- The Planetary Society Weblog, Windows onto the abyss: cave skylights on Mars (05.23.2007).
- NASA Astrobiology Magazine, Exploring caves from 30 feet in the air (04.30.2007).
- Astrobiology Magazine, Caves on Mars (04.04.2007).
- Space.com, Possible new Mars cave targets in search for life (04.02.2007).
- National Geographic Online, Mars has cave networks, new photos suggest (03.21.2007).
- MSNBC Cosmic Log, Caves on Mars (03.19.2007).
- BBC, 'Cave entrances' spotted on Mars (03.17.2007).
- Live Science, New genus of cricket found in Arizona cave (05.05.2006).

INTERESTS

Yoga, trail-running, mountain biking, cycling, cross-country skiing, snowshoe running, surfing, playing guitar and ukulele, and studying history, exploration, anthropology, philosophy, and natural history.