

Chief Business Officer
syGlass

Jason Osborne serves as the Chief Business Officer for the scientific and educational virtual reality company, syGlass. Prior to syGlass, he served over six years as the Chief Innovation Officer at Ector County ISD in Odessa, Texas. In both capacities, he spearheaded innovative educational experiences for students and teachers through STEM methodology, research, and engaging authentic investigations. Jason served as a Host Researcher for National Geographics, JASON Project and STEM mentor for the international Google Science Fair. In the science sector, Jason served over nine years with the Howard Hughes Medical Institute as a mechanical engineer and scientific project strategist and as a federal consultant for the National Institutes of Health. Jason's work in science, education, and engineering have been recognized and featured in publications and media outlets such as Nature, Scientific American, Popular Science, National Geographic, Discovery Channel, and NPR. In June 2013, The President of the United States and the White House Executive Office of The President honored Jason as a Champion of Change for his dedication to increasing public engagement in science and science literacy. Most recently, Jason was recognized as one of the Top 30 EdTech Influencers by EdTech Magazine



Awards/Honors

The White House

Champion of Change – The White House award given by the President of the United States and the Executive Office of The President, Office of Science and Technology Policy, June 2013

EdTech

Top 30 EdTech Influencer- From podcasters to bloggers and speakers, these influential figures are helping school leaders, IT decision-makers and educators navigate today's uncertain educational landscape. *EdTech magazine*, 2020

New Genus/Species of Oligocene Whale

New whale species named in Jason Osborne's honor as the discoverer of the whale genus, *Ediscedus osbornei*, 2018

New Species of Miocene Isopod

New isopod species named in Jason Osborne's honor as the discoverer of the new species, *Livoneca osbornei*, 2024

Google

EdFoo Camp Invitee - Education Foo Camp (or "Ed Foo"), a unique, invitation-only gathering of 200 people from around the world organized by Google, Macmillan Learning, O'Reilly Media, Scientific American, Sesame Street and the US Dept of Education. Google headquarters in Mountain View, CA, February 2016 and April 2017

The White House

White House Author, The White House guest blog, August 2015

Embassy of Switzerland

Honored guest of H.E. Manual Sager Ambassador of Switzerland, Washington DC, April 23, 2014

Google

SciFoo Camp invitee – 200 + people from around the world in science, industry, arts and communications were invited to GooglePlex, Mountain View CA for a collaborative conference. Sponsored by Google, Nature and O'Reilly Media, August 2012, August 2014, and July 2019

United States Department of State

Honored Guest of the Honorable Catherine Novelli, Under Secretary of State for Economic Growth, Energy and Environment & Mr. Larry Bock, Co-Founder USA Science and Engineering Festival – Benjamin Franklin Room, Department of State, Washington DC, April 24, 2014

Google

Google Science Fair guest scientist via global Google Hangout sponsored by Google and Scientific American Magazine, 2013- present

TSPRA

Texas School Public Relations Association (TSPRA) Two gold star awards and one crystal award in 2020

The Telly Award

Winner in 44th Annual International Telly awards, Social Video Category/ General Education Institution - ECISD Fossil Trip, 2023

National Academy of Television, Arts & Sciences

Emmy Nomination in Science/ Short or Long Form - ECISD Fossil Trip, 2023

National Academy of Television, Arts & Sciences

Emmy Nomination in Education/Schools Short or Long Form - A New Reality in Virtual Reality, 2022

Peer Reviewed Publications

Journal of Paleontology

Godfrey, S. J., Uhen, M. D., Osborne, J. E., & Edwards, L. E. (2016). A new specimen of *Agorophius pygmaeus* (Agorophiidae, Odontoceti, Cetacea) from the early Oligocene Ashley Formation of South Carolina, USA. *Journal of Paleontology*, 90(1), 154-169.

South Carolina Geology

Weems, R.E., Albright, B., Bybell, L.M., Cicimurri, D.J., Edwards, L.E., Harris, W.B., Lewis, W.C., Osborne, J.E., Sanders, A.E. and Self-Trail, J., 2016. Stratigraphic revision of the Cooper Group and the Chandler and Edisto Formations in the Coastal Plain of South Carolina. *South Carolina Geology*, 49, pp.1-24.

Vestnik Zoologii

Rahmat, S. J., Koretsky, I. A., Osborne, J. E., & Alford, A. A. (2017). New Miocene Monachinae from the western shore of the Chesapeake Bay (Maryland, USA). *Vestnik zoologii*, 51(3), 221-242.

Nature Protocols

Lee, D., Shtengel, G., Osborne, J. E., & Lee, A. K. (2014). Anesthetized-and awake-patched whole-cell recordings in freely moving rats using UV-cured collar-based electrode stabilization. *Nature protocols*, 9(12), 2784-2795.

Public Library of Science - PloS one

Osborne, J. E., & Dudman, J. T. (2014). RIVETS: A Mechanical System for In Vivo and In Vitro Electrophysiology and Imaging. *PloS one*, 9(2), e89007.

Nature Methods

Seelig, J. D., Chiappe, M. E., Lott, G. K., Dutta, A., Osborne, J. E., Reiser, M. B., & Jayaraman, V. (2010). Two-photon calcium imaging from head-fixed *Drosophila* during optomotor walking behavior. *Nature methods*, 7(7), 535-540.

Journal of Paleontology

Weems, R. E., Edwards, L. E., Osborne, J. E., & Alford, A. A. (2011). An occurrence of the protocetid whale "Eocetus" wardii in the Middle Eocene Piney Point Formation of Virginia. *Journal of Paleontology*, 85(2), 271-278.

Published White Papers

Texas Elementary Principals and Supervisors Association

Whittenburg K, Osborne JE.; Igniting Curiosity and Discovery Through a New Lens: How a Paper Microscope Created New Opportunities for Students, Teachers and Parents. *TEPSA Leader*, Winter 2021, Vol 34, No. 1

Published Abstracts

Society for Neuroscience

B. Barragan, D. Jackson, G. Spirou, K. Whittenburg, J.E. Osborne – Citizen Science Meets Virtual Reality: A Collaborative Incubator for High School Student Interest in the Participation and Contribution to Neuroscience. Neuroscience Meeting, San Diego, CA: Society for Neuroscience, 2022

Society for Neuroscience

A. Bellemer, B. Barragan, K. Whittenburg, M. Wilton, Gonzalez-Nino, T. Kazimiers, J.H. Simpson, J.E. Osborne, D.D. Bock, A.M. Dacks, K.J. Colodner. Connectomics in the classroom: Introducing students to neuroscientific principles using the Drosophila Female Adult Fly Brain electron microscopy data set. Neuroscience Meeting, Chicago, IL: Society for Neuroscience, 2021

National Institutes of Health

Osborne JE, Schlabritz-Loutsevitch N.; Accelerating human placenta research through data analysis by middle and high school systems - Understanding Human Placental Structure and Function in Real Time: Current Progress and Future Directions At: Natcher Conference Center, Building 45 NIH Main Campus 45 Center Drive Bethesda, MD 20892, July 2017

North American Paleontological Convention

Osborne JE, Alford AA. Paleo Quest: A collaborative incubator for accelerating discovery, advancing exploration and impacting science literacy. Presented at the tenth annual North American Paleontological Convention, Gainesville, FL: February 2014.

North American Paleontological Convention

Alford AA, Osborne JE. SharkFinder: Advancing the understanding of evolution and diversity through a flexible scalable citizen science program. Presented at the tenth annual North American Paleontological Convention, Gainesville, FL: February 2014.

Howard Hughes Medical Institute

Osborne JE, Alford AA. Can peculiar cross-disciplinary alliances, citizen science, and novel field research methods accelerate discovery? Presented at the SEA-PHAGES Symposium, Howard Hughes Medical Institute, Ashburn,VA, June 2013.

South Carolina State Museum

Knight JL, Osborne JE, Weems RE, “Morphological Differentiation of Paleaopheid Snakes and Implications for Lifestyle Determinations” SC State Museum April 2009

Published Case Studies

Immersive Technology in Smart Cities

Augmented and Virtual Reality, EAI/ Springer Innovations in Communication and Computing, Springer Nature 2022

Buzz! Inside the Minds of Thrill-Seekers, Daredevils, and Adrenaline Junkies

Chapter 6: “All in a Days Work”

Dr. Ken Carter, In Press, Cambridge University Press, 2019

Teaching AI: Exploring New Frontiers of Learning

Chapter 2: “Preparing Students For the Future” (PICK Education)

Michelle Zimmerman PhD, Published by the International Society for Technology in Education (ISTE) 2018

Noted Scientific discoveries

New Genus species of Miocene Isopod, *Livoneca osbornei*, 2024 (in press)

New Genus/species of Oligocene Whale, *Ediscetus osbornei*, 2018

Two new species of Miocene Seals, *Terranectes magnus* and *Terranectes parvus*, 2017

New specimen of Oligocene Odontoceti whale, *Agorophus pigmaous*, 2016

First occurrence of Eocene Protocetid whale in Virginia “Eocetus wardii”, 2010

First occurrence of Oligocene whale Archeomysticete in Old Church Formation, New Kent VA

New specimen of Oligocene Scombridae fish, 2012

Largest, most complete articulation of Palaeophis sea snake skeleton in the western hemisphere, 2012

First occurrence of Oligocene sea turtle in the Upper Ashley Formation, 2014

First occurrence of leather back turtles in the Newport News beds of the Calvert Formation, South Hampton, VA, 2010

First occurrence of Procolpochelys sea turtle in the Newport News beds of the Calvert Formation, South Hampton VA, 2010

First occurrence of leather back turtle in Bed A of the Woodstock member, Nanjamoy formation, 2009

Noted Media About

LinkedUp Podcast

Building an Equitable Pipeline for the Sciences, ClassLink LinkedUp Podcast, Episod 116, August 2023

EdTech Magazine

Jason Osborne on How to Help K–12 Students Discover the World of Science, December 2019

Texas Education Agency – TEA

PICK Education, November, 2018

New York Academy of Science

Where science lives, October 4, 2016

Discovery Channel

Swamp Diving for Fossils. Prime time TV, The Daily Planet, November 17, 2015

National Geographic

Extreme diver discovers ancient whale skull. August 21, 2015

NPR

Glimpse The History of Life in a Beer, October 3, 2014

Voice of America

SharkFinder Brings Science Excitement to Classrooms. August 6, 2014

NPR

Captain Ahab's Revenge: Brewing Beer From An Ancient Whale Bone. July 15, 2014

Scientific American

Kid Scientists Make Real Fossil Finds at the USA Science & Engineering Festival. April 30, 2014

Popular Science

"Paleo Ale' Brewed From Yeast Found On A 40-Million-Year-Old Whale Fossil. April 4, 2014

Science Magazine

Scarcity Breeds Opportunity, April 3, 2014

Reuters

Dragonfly backpacks to probe secrets of the brain. November 8, 2013

National Geographic

Tiny Dragonfly Backpacks Reveal Mysteries of the Brain. October 13, 2013

Nature Magazine

Citizen science: Amateur experts involving members of the public can help science projects, but researchers should consider what they want to achieve. April 11, 2013

The White House

Citizen Science: Bringing the Excitement of Discovery to All, The White House blog June 25, 2013

Noted Presentations

Texas Education Technology Leaders – Keynote

Keynote - Innovation to Impact: A Journey in Transforming Education, Prosper Texas, October 6, 2023

InterFace Rice

DEI in Neuroscience and Engineering Education, Rice University, May 18, 2023

Texas Education Agency - TASA

Revolutionizing Education, TAS/MUS Superintendent Conference, Waco Texas, April 2023

National School Board Association (NSBA)

“Embracing Heutagogy to Equip Students for the Innovations of the Future...Today” San Diego, CA, 2022

Innovation Forum

“Igniting Curiosity and Discovery Through Big Data Analysis in the K-12 Classroom” Austin Texas, April 2018

TEDx

“The Risk of Reward: Pushing the Limits for Discovery”, Ashburn Virginia, September 2017

TEDx

“The science, the culture, and the community of K-12 Classrooms”, Ashburn Virginia April 2017

New York Academy of Science

Meet The Minds of STEM: The Power of Data, New York City New York, October, 2016

Google Headquarters

Classroom Sourcing Science: Redesigning Education for Student Ownership and Scientific Contribution, Co-session with Dr. Michelle Zimmerman, Mountain View California April 2016

Texas Education Agency - TASA

“Citizen Science in the Classroom”, TAS/MUS Superintendent Conference, Boerne Texas April 2016

George Washington University – Keynote

“You are your fate, your future and your legacy. Own it!” Science Technology and Engineering Day, Washington DC March, 2016

The White House - Televised White House LIVE National Presentation

“Citizen Science: Bringing the Excitement of Discovery to All” – Champion of Change honor, June 2014

Google Headquarters

“Science Isn't Scary - How can we be better at explaining that to the public?” Co-session with Scientific American Editor in Chief Mariette DiChristina and Nature Vice President, Grace Baynes, SCIFOO Conference, Mountain View California August, 2014

University of Florida

Accelerating science literacy, paleontological discoveries and museum collections through citizen science, outreach and novel field recovery methods, Gainesville Florida February 2014

Howard Hughes Medical Institute

"Can peculiar cross-disciplinary alliances, citizen science, and novel field research methods accelerate discovery?" National SEA Phage Conference, Ashburn Virginia June, 2013

Google Headquarters

"Internet Education for Teachers" Co-session with Sir Harry Kroto Nobel Laureate in Chemistry, and Peter Norvig Director of Technology for Google

"Classroom Sourcing Science/Science Sourcing Education"

"Large Scale Citizen Science in the Classroom"

SCIFOO Conference, Mountain View California August , 2012

Smithsonian National Zoo

How citizen scientists, advanced resins and extinct sharks will aid in uncovering Virginia's ancient herpetofauna, Washington DC October, 2012

George Washington University – Keynote

"Advancing science through methods development and citizen science" Washington DC June, 2012

University of Virginia – Keynote

"Why committing 'real' science is important to science education" Virginia Superintendents Institute, Charlottesville Virginia June 2012

Media About – Extended

International

Swamp Diving – **Discovery Channel**, Daily Planet (prime time), November 17, 2015

See the ancient whale skull recovered from a Virginia swamp, **National Geographic** Animals video (August 21, 2015)

Silva P. (July 31, 2015) Innovative Technology Using Dragonflies Might Offer Insights Into Human Brain Function, **Parkinson's News Today**

Cole A. (Oct 3, 2014) Glimpse The History of Life in a Beer. **NPR** feature video and story

Soh J. (August 6, 2014) SharkFinder Brings Science Excitement to Classrooms. International Feature Story **Voice of America**.

Baker N. (July 17, 2014) Whale Fossil Used To Brew Beer. **The Drinks Business Magazine**

Soh J. (June, 2014) Brewer Mixes Loves of Paleontology, Microbiology, Beer. International Feature Story **Voice of America**

DiChristina M. (April30, 2014) Kid Scientists Make Real Fossil Finds at the USA Science & Engineering Festival. **Scientific American Blog**

Monoyios, K. (April 29, 2014) Bone Dusters Paleo Ale Gets A Rockin' Label **Scientific American Magazine Blog**

Osborne,J. (April 27, 2014) High Risk, High Return **ScienceBlogs**

Gura,T. (April 3, 2014) Scarcity Breeds Opportunity
Science magazine

Diep, F. (April, 4, 2014) "Paleo Ale' Brewed From Yeast Found On A 40-Million-Year-Old Whale Fossil
Popular Science Magazine

Monoyios, K. (March 25, 2014) Bone Dusters Paleo Ale, Brewed from Real Fossils! Symbiartic **Scientific American Magazine Blog**

May, L. (March,2014) Beer Brewed From Prehistoric Whale Fossil. Yeast found on the 35 million-year-old remains of a prehistoric whale is the latest bizarre ingredient to be used to brew beer in an effort to engage people with science. **The Drinks Business Magazine**

Carey J. (Winter 2014) Technical Wizardry: Howard Hughes Medical Institute **HHMI Bulletin**

Osborne JE, (June 2013) Citizen Science: Bringing the Excitement of Discovery to All, **The White House blog**

T. Gura. Citizen science: Amateur Experts. Involving members of the public can help science projects – but researchers should consider what they want to achieve. **Nature** 496, 259-261 (11 April 2013)

Tripp, E. (11/26/13). Ocean Organization Spotlight: Paleo Quest. **Marine Science Today**.

DiChristina, M. (8/12/13). Google Science Fair 2013: Hangout in a swamp. *Behind the scenes at Scientific American*. **Scientific American**

Tiny Dragonfly Backpacks Reveal Mysteries of the Brain – (10/13/13) video produced by Jeff Hertrick, **National Geographic**

Dragonfly backpacks to probe secrets of the brain- (11/8/13) video **Reuters TV**

Goforth S. (8/2011) Sink or Swim: Howard Hughes Medical Institute **HHMI Bulletin**

Gardiner,MB (5/2010) Fossil Hunter: Howard Hughes Medical Institute **HHMI Bulletin**

National

Summer 2015 - **Innovation and Tech Today Magazine** – The STEM Speakers Speak

Gallagher D. (October, 21 2015) Remains of 300 million year old 'supershark' uncovered in Texas. **CNET**

Gallagher D. (August 26, 2015) What to do if you find a massive ancient whale skull in a Virginia swamp: **CNET**

'Paleo Ale' made brewed with yeast on 35-million-year-old whale fossil. (April, 3 2014) **FOX News.com**

Reisch M. (April 28, 2014) Fossil-Infused Beer, 75 Million Year Old Turtle Bones. **Chemical and Engineering News magazine**

Fleur N. (July 15, 2014) Captain Ahab's Revenge: Brewing Beer From An Ancient Whale Bone. The Salt – **NPR**

CNBC staff (July 16, 2014) Beer Brewed From Ancient Whale Fossils. Really. **CNBC News**

Patrick and Ryan (November 14, 2014) Yeast from a Beast , **Science Sort of Podcast .**