

PHILIP J. STOKES, PhD

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CURRICULUM VITAE

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Education:

Ph.D., Geosciences with Minor in Teaching, Learning, and Sociocultural Studies, University of Arizona, 2016. Dissertation entitled 'Diversity in Geoscience: Critical Incidents and Factors Affecting Choice of Major' (Karl W. Flessa & Kristin S. Gunkel, Co-advisors).

M.S., Geological Sciences, University at Buffalo, 2007. Thesis entitled 'Ground penetrating radar investigation of the Late Quaternary Hiscock Site, Western New York State' (Gregory S. Baker and Jason P. Briner, Co-advisors).

B.S., Geological Sciences, University at Buffalo, 2004.

Professional Experience:

Executive Director, Hamburg Natural History Society/Penn Dixie Fossil Park & Nature Reserve, November 2015-present. Duties include:

- Leadership of the 10th highest publicly funded cultural organization in Erie County, NY which features a unique mission that serves 15 to 20 thousand visitors annually
- Oversight of \$1M budget (operations plus capital in 2026) to operate and develop a 54-acre science and nature center located in a rehabilitated former quarry
- Partnering with the board of directors to develop organizational structure and new policies to grow the organization, tripling attendance in less than 10 years
- Focus on building a national reputation for delivering unique, high quality paleontology experiences for science enthusiasts in the general public
- Management of 15-20 employees including FT, PT, and seasonal positions
- Fundraising and administration of capital campaigns and construction projects
- Responsibility for grant writing, HR, external relations, technology, and maintenance
- Programmatic collaboration with cultural, governmental, educational, and private-sector partners, including close friends at the American Museum of Natural History, Museum of the Earth, and Explore & More Children's Museum
- Work with international groups to develop their own geological attractions

Undergraduate Advisor, Department of Geosciences, University of Arizona, 2014-2015.

Duties included:

- Advising undergraduate geoscience majors and minors
- Assisting students with course scheduling and career counseling
- Providing administrative support and distributing degree information

Program Coordinator, National Science Foundation (NSF) Award # 0914401: Southern Arizona Geosciences Union for Academics, Research and Outreach (SAGUARO), 2009-2013, <http://saguaro.arizona.edu/>. Duties included:

- Oversight of day-to-day program functions including budgeting, hiring, reporting, and training of undergraduate student employees

- Recruitment and retention of underrepresented minority students into the geosciences via expansive outreach programming and paid internships
- Grant writing, data collection, and program evaluation
- Organization of mentoring, and research experiences for interns
- Leading student field trips throughout the region, including northern Arizona, Utah, Colorado, New Mexico, Idaho, Wyoming, and Montana

Logistical Support Coordinator/Head Cook, Geology Summer Field Camp, Department of Geology, University at Buffalo, 2004-2015. Duties included:

- Purchasing and transporting provisions across three states for month-long field program
- Oversight of camp menu, cook staff, and student health and wellbeing
- Management of student health and safety issues, logistical concerns
- Cooking a mean pot of chili in some of the most scenic and remote places in the USA

Outreach Coordinator, Department of Geosciences, University of Arizona, 2012-2014. Duties included:

- Organizing departmental outreach efforts and planning new activities to spur enrollment and interest in the geosciences at the #1 Geology program in the country
- Promoting geoscience in the community at the Tucson Festival of Books, Tucson Gem & Mineral Show, and in Tucson public schools
- Collaborating with university organizations and leadership to deliver high quality science to the public in service to the university's recruitment mission

Graduate Research Assistant, Materials Science & Engineering Department, University of Arizona, 2008-2010. Duties included:

- Collection and analysis of geophysical field data using a variety of methods involving electromagnetic and acoustic equipment; data analysis
- Exploration of underground solar energy storage sites as part of the Arizona Research Institute for Solar Energy (AzRISE)
- Travel outside of southern Arizona to conduct collaborative research on ad hoc basis, including trips to the Mono Basin in Southern California
- Ground penetrating radar investigations of crime scenes

Program Coordinator, NSF-OEDG Buffalo Geosciences Program, State University at Buffalo, 2004-2007. Duties included:

- Development and implementation of program model, goals, and outreach geared towards recruitment and retention of underrepresented students into geosciences
- Management and mentoring of 40 underrepresented undergraduate and high school students who were considering majoring in the geosciences
- Presentation of outreach materials to Buffalo Public School students, at libraries, and at cultural organizations such as the Buffalo Museum of Science and Penn Dixie
- Supervision of high school and undergraduate student research projects involving collaboration across disciplines and university departments

- Compilation of reports and program statistics for the National Science Foundation
- Attending conferences to present talks and posters while networking; writing manuscripts to present findings to the broader geoscience community

Graduate Research Assistant, Department of Geology, University at Buffalo, 2004-2007

- Utilized ground penetrating radar to uncover mastodon bones and understand the geological history at the Pleistocene Hiscock Site owned by the Buffalo Society of Natural Sciences and located near Byron, NY
- Explored historical sites using geophysical techniques in partnership with interested historical societies (e.g., Hull House Cemetery, Old Fort Niagara)
- Supervised undergraduate field assistants in support of the above duties

Undergraduate Research Assistant, Department of Geology, University at Buffalo, 2002-2004

- Field investigations of geological sites in western and central NY, including the Finger Lakes region, to determine the potential for natural resources (water, gas, oil)
- Regional travel to northern Pennsylvania, Ohio, New Jersey, Virginia, West Virginia, Kentucky, Tennessee, and Georgia in support of various research and teaching projects under several supervising faculty and graduate students

Teaching Experience:

Lecturer, GEOS 251 Physical Geology, University of Arizona, Summer 2015. Duties included:

- Piloting of special hybrid (i.e., online lectures, in person labs) version of course
- Organizing course materials, developing instructional and assessment materials, facilitating classroom discussions, implementing labs, grading
- Leading field trip to Mt. Lemmon
- Supervising undergraduate preceptors

Instructor, UA Science: Sky School, University of Arizona, 2013-2015. Duties included:

- Inquiry-based science tours of Mt. Lemmon for K-12 students
- Presentation of earth science, astronomy, ecology, math, and history lessons to K-12 students in an informal classroom and outdoors setting
- Leadership of inquiry groups for research projects and presentations
- Organizing group sing-alongs and other leisure activities

Graduate Teaching Associate, GEOS 170 A1 Earth: Birth to Death, University of Arizona, Fall 2010, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014. Duties included:

- Development of in-class lecture tutorial activities with place-based geoscience concepts
- Leading weekly study groups, grading, substitute teaching

Graduate Teaching Assistant, GEOS 399 Independent Study: Flandrau-Sky Island NSF Project, University of Arizona, Spring 2011. Duties included:

- Guided undergraduate research projects on geology and ecology of Mt. Lemmon
- Organized field trip of Mt. Lemmon for non-scientists from the Tucson community

Funding/Support:

2026 Erie County Cultural Funding (\$120k) for general operations
2026 Town of Hamburg Grant (\$15k) for general operations
2025 Erie County Cultural Funding (\$100k) for general operations
2025 Town of Hamburg Grant (\$15k) for general operations
2024 Erie County Capital Funding (\$827k) for bathroom facilities
2024 Erie County Cultural Funding (\$100k) for general operations
2024 Town of Hamburg Grant (\$10k) for general operations
2023 NYS Return-To-Work Tourism Grant (\$27,500) for staffing
2023 Town of Hamburg Grant (\$10k) for general operations
2023 Erie County Cultural Funding (\$100k) for general operations
2023 Ralph C. Wilson, Jr. Award (\$10k) for inclusivity programming
2023 WNY Foundation Grant (\$5k) for board training
2022 NYS Assembly Grant (\$250k) for capital campaign
2022 Town of Hamburg Grant (\$100) for capital campaign
2022 Town of Hamburg Grant (\$10k) for general operations
2022 Erie County Cultural Funding (\$96k) for general operations
2022 IRS Employee Retention Tax Credits (\$123k) for staffing
2021 Town of Hamburg Grant (\$10k) for general operations
2021 Erie County Cultural Funding (\$96k) for general operations
2021 US SBA Shuttered Venue Operators Grant (\$53k) for staffing
2020 Town of Hamburg Grant (\$10k) for general operations
2020 Erie County Cultural Funding (\$98k) for general operations
2020 US SBA PPP Loans/Grants (\$94k) for staffing
2019 Town of Hamburg Grant (\$10k) for general operations
2019 Erie County Cultural Funding (\$96k) for general operations
2019 Community Foundation for Greater Buffalo Grant (\$35k) for hazardous waste cleanup
2018 Town of Hamburg Grant (\$5k) for general operations
2018 Erie County Cultural Funding (\$95k) for general operations
2018 Community Foundation for Greater Buffalo Grant (\$15,500) for visitor center design
2017 Erie County Cultural Funding (\$93k) for general operations
2017 Town of Hamburg Grant (\$5k) for general operations
2016 Ronald McDonald House Charities Grant (\$3,875) for Penn Dixie astronomy programs
2016 Town of Hamburg Grant (\$5k) for HNHS/Penn Dixie operations
2016 Erie County Cultural Funding (\$90k) for HNHS/Penn Dixie operations
2015 National Science Foundation Award #1540596 (\$288,404) for proposal "Pathways into geosciences at the University of Arizona"
2014 University of Arizona Graduate College Scholarship (\$3,500)
2013 Software Sponsorship (\$400 value), QSR International
2013 University of Arizona Graduate College Scholarship (\$4,700)
2013 Summer Scholarship (\$1,360), Department of Geosciences, University of Arizona
2013 Maxwell Short Scholarship (\$1,500), Department of Geosciences, University of Arizona
2013 University of Arizona College of Science Galileo Circle Scholarship (\$1k)

- 2011 Graduate Student Research Grant (\$2,700), Geological Society of America
- 2010 TRIF Fellowship (\$18k) for "Geophysical imaging of the Tucson Mountains for potential solar energy storage", Department of Radiology, University of Arizona
- 2010 Wesley Peirce Scholarship (\$1,875), Department of Geosciences, University of Arizona
- 2009 Travel Grant (\$450), University of Arizona Graduate & Professional Student Council
- 2009 National Science Foundation Award #0914401 (\$155k) for proposal "The Southern Arizona Geosciences Union for Academics, Research, and Outreach (SAGUARO): A Track 1 Program for Enhancing Diversity at the University of Arizona"
- 2008 Student Travel Grant (\$250), GSA Geoscience Education Division
- 2007 John Sumner Memorial Scholarship (\$1k), Mining & Geological Engineering Department, University of Arizona
- 2006 Mark Diamond Research Fund Student Research Grant (\$1500), Graduate Student Association, University at Buffalo
- 2005 Graduate Student Research Grant (\$1500), Geological Society of America
- 2003 Buffalo Association for Professional Geologists Undergraduate Research Grant (\$500)

Honors and Awards:

- 2021 40 Under 40 Awardee by Buffalo Business First
- 2021 Guinness World Record for World's largest fossil dig at Penn Dixie (2018 attempt)
- 2017 Innovation Award presented to Penn Dixie by the Hamburg Chamber of Commerce
- 2014 Acceptance into the Exemplary Teaching Activity Collection for lesson entitled "The Evolution of Earth through Time" by the NAGT *On the Cutting Edge* program
- 2013 Runner-up of Best Overall Presentation for talk on "Why do so few Hispanics major in geoscience?" at the 41st Annual University of Arizona GeoDaze Conference
- 2011 Invited panelist for National Science Board meeting on the Changing Landscape of Undergraduate STEM Education, Sept. 13, University of Arizona
- 2010 Outstanding Service Award, Department of Geosciences, University of Arizona
- 2009 Co-winner of Best Student Paper Award for oral presentation of "Spreading roots: The goals and challenges of establishing a self-sustaining diversity program in southern Arizona" at the 2008 Geological Society of America Meeting (Geology & Society Div.)
- 2004 Reginald H. Pegrum Award for Outstanding Senior Geology Student, Department of Geology, University at Buffalo
- 2004 Most Improved Academic Club (Geology), Undergraduate Student Association, University at Buffalo
- 2003 Excellence in Community Service Award (Geology Club), Undergraduate Student Association, University at Buffalo

Publications: Manuscripts

2015

Stokes, P.J., Levine, R., and Flessa, K., Choosing the geoscience major: Important factors, race/ethnicity, and gender: *Journal of Geoscience Education*, v. 63, no. 3, p. 250-263.

2014

Stokes, P.J., Levine, R., and Flessa, K., Why are there so few Hispanic students in geoscience?: *GSA Today*, v. 24, no. 1, p. 52-53.

2007

Stokes, P.J., Baker, G.S., Briner, J.P., and Dorsey, D.J., A multifaceted outreach model for enhancing diversity in the geosciences in Buffalo, NY: *Journal of Geoscience Education*, Vol. 55, No. 6, p. 581-588.

2006

Stokes, P.J., and Zambito, J.J, Using marine fossils to unlock the Middle Devonian paleoenvironments of western New York (For K-12 teachers and collectors): in Jacobi, R.D. (ed), *New York State Geological Association Field Trip Guidebook, 78th Annual Meeting*, University at Buffalo, p. 414-434.

Publications: Conference Proceedings

2025

Hopkins, M., Trowbridge, C., Nikolic, M., Johnson, E., Romano, A., and Stokes, P., Engaging 6-12 grade teachers and students in genuine paleontological research through the Earth Science Reciprocal Learning Year (EaRLY) Initiative: *Geological Society of America Abstracts with Programs*, Vol. 57.

Zelt, F., Steck, R., **Stokes, P.**, and Brett, C., Fossils, Fractures, and Foreshore Cliffs: The Influence of Geologic Features on Frank Lloyd Wright's Transition from Prairie School to Organic Architecture at Graycliff on Lake Erie, Western New York State, USA: *Geological Society of America Abstracts with Programs*, Vol. 57.

2024

Stokes, P., Mecca, S., Sanecki, R., and Hoag, J., Digging for trilobites, science education, and long-term sustainability at Penn Dixie Fossil Park in Buffalo, NY: *North American Paleontological Convention Abstracts with Programs*, 12th North American Paleontological Convention, University of Michigan.

2023

Stokes, P., Mecca, S., Sanecki, R., and Hoag, J., Digging into Penn Dixie: The making of America's #1 fossil park: *Geological Society of America Abstracts with Programs*, Vol. 55, No. 6.

2020

Trowbridge, C., **Stokes, P.**, Schreiber, H., and Hopkins, M., Bringing teachers into the field in order to bring field-based paleontological research into the classroom: *Geological Society of America Abstracts with Programs*, Vol. 52, No. 6.

2019

Stokes, P.J., Killing the Cockroach: Reflections on Extinction: 10th Annual TEDxBuffalo Conference, Asbury Hall, Buffalo, NY.

2016

Fay, N.P., Schmidt, N., Flessa, K., Alexander, E., **Stokes**, P.J., Clah, J., Gabriel, M.J., Kelley, A., LeBlanc, V., Luhr, S., and Nieto, C., Geopathways: A University of Arizona-Pima Community College Partnership for Transfer Students: Year 1: Geological Society of America Abstracts with Programs, Vol. 48, No. 7.

2015

Stokes, P.J., Flessa, K.W., Fay, N., Schmidt, N., Transfer shock, community partnerships, and retention resources: Pathways into geosciences at the University of Arizona: Geological Society of America Abstracts with Programs, Vol. 47, No. 7.

Stokes, P.J., Flessa, K.W., Levine, R., Gates, A.E., and Gray, F., From research to practice: Steering urban youth into geoscience: Geological Society of America Abstracts with Programs, Vol. 47, No. 7.

2013

Stokes, P.J., Flessa, K.W., Levine, R., Gates, A.E., Why are there so few African Americans and Hispanics in geoscience?: Geological Society of America Abstracts with Programs, Vol. 45, No. 7.

Hernandez, E.N., **Stokes**, P.J., Flessa, K., Digging for the next generation of geologists: The effectiveness of Saturday Science Academy: Geological Society of America Abstracts with Programs, Vol. 45, No. 5.

Stokes, P.J., Flessa, K.W., and Levine, R., Why do so few Hispanics major in geoscience?: University of Arizona GeoDaze Abstracts with Programs, 2013.

2012

Stokes, P.J., Flessa, K.W., Levine, R., and Gunckel, K., Troubleshooting the pipeline: Developing a critical incident taxonomy for minority and non-minority student pathways into the geosciences: Proceedings of University of Arizona EarthWeek, 2012.

Hernandez, E.N., **Stokes**, P.J., Zumbusch, J., Flessa, K.W., Leon, M., Truebe, S., Murray, K. and Nicole Conway. Digging for the Next Generation of Geologists: The Effectiveness of Saturday Science Academy. University of Arizona GeoDaze Abstracts with Programs, 2012.

2011

Stokes, P.J., Levine, R., Fuhrman, M., Gunckel, K., and Flessa, K., Troubleshooting the pipeline: Developing a critical incident taxonomy for minority and non-minority student pathways into the geosciences: Geological Society of America Abstracts with Programs, Vol. 43, No. 5.

Hernandez, E.N., **Stokes**, P.J., Levine, R., Fuhrman, M., Flessa, K.W., Leon, M., Truebe, S., Murray, K. and Conway, N., Digging for the Next Generation of Geologists: The Effectiveness of Saturday Science Academy: Society for Advancement of Chicanos and Native Americans in Science annual meeting.

Hernandez, E.N., **Stokes**, P.J., Levine, R., Fuhrman, M., Flessa, K.W., Leon, M., Truebe, S., Murray, K. and Conway, N., Digging for the Next Generation of Geologists: The Effectiveness of Saturday Science Academy: University of Arizona GeoDaze 2011.

Marshall, L.X., Gettings, M.E., Edge, R.D. and **Stokes**, P.J., The Tucson Mountains caldera: using gravity and magnetic anomalies to test trapdoor subsidence and locate subsurface plutonic bodies: University of Arizona GeoDaze 2011.

2010

Dennen, R.L., Bursik, M.I., **Stokes**, P.J., Lagamba, M., Fontanella, N., Hintz, A.R., Jayko, A.S., Two coarse pyroclastic flow deposits, northern Mono-Inyo Craters, CA: American Geophysical Union, Fall Meeting, abstract #V14C-01.

Stokes, P.J., Sternberg, B.K., and Fleming, J., Geophysical exploration of the Tucson Mountains, southern Arizona, for potential underground compressed air energy storage: Geological Society of America Abstracts with Programs, Vol. 42, No.5.

Saenz, N., Ash, J.L., **Stokes**, P.J., Truebe, S., Murray, K., and Sternberg, B.K., Saturday Science Academy at the University of Arizona: An opportunity to assess the effects of earth science outreach on Tucson's students: University of Arizona GeoDaze 2010.

2009

Sternberg, B.K. and **Stokes**, P.J., Solar energy storage: The search for geological reservoirs in Arizona (poster): University of Arizona Solar Fusion 2009.

Stokes, P.J., McGlue, M.M., Sternberg, B.K., Flessa, K.W., Anderson, K.E., and Gans, C.R., Spreading roots: The goals and challenges of establishing a self-sustaining diversity program in southern Arizona (poster): University of Arizona GeoDaze 2009.

2008

Sternberg, B.K., **Stokes**, P.J., Zhang, L., Ahmari, S., Dvorak, S., Simmons, J., Hayden, H., Dancoe, S., Nowatzki, E., Post, R., Samtani, N., Maraj, S., Barbato, N., and Grubaugh, S., Solar energy storage using compressed air in geologic repositories: AzRISE First-Year Poster Review, University of Arizona, December 2008.

Stokes, P.J., Spreading roots: The goals and challenges of establishing a self-sustaining diversity program in southern Arizona (oral): Geological Society of America Abstracts with Programs, Vol. 40.

Anderson, K.E., Dickinson, J.E., Edge, R.D., Macy, J.P., Maraj, S., Sternberg, B.K., **Stokes**, P.J., and Thurner, S.M., Controlled source audio magnetotelluric (CSAMT) geophysical investigation in the Upper San Pedro Basin, southeastern Arizona: Geological Society of America Abstracts with Programs, Vol. 40.

Stokes, P.J. and Sternberg, B.K., Combining geophysics and homicide: Ground penetrating radar investigations of a possible homicide burial site in the Arizona desert: University of Arizona GeoDaze 2008.

Stokes, P.J., Briner, J.P., and Baker, G.S., Ice-scoured bedrock, Laurentide meltwater, and Lake Tonawanda wind seiches: Glacial effects on the development of the Hiscock Site: Geological Society of America Abstracts with Programs, Vol. 40, No. 2.

2007

- Stokes**, P.J., Baker, G.S., Laub, R.S., and Briner, J.P., Correlating georadar facies to subsurface lithology: an approach to understanding the Late Quaternary Hiscock Site, western New York State: Geological Society of America Abstracts with Programs, Vol. 39, No. 6.
- Ridgeway, M.L., Harper, E.L., Whalen, K.M., **Stokes**, P.J., and Maletz, J., The Importance of regulatory policy for the conservation of vertebrate fossils and fossil sites: University at Buffalo Celebration of Academic Excellence, April 19, 2007.

2006

- Delaney, B.A., **Stokes**, P.J., Thuman, H., Perrelli, D.J., and Baker, G.S., Grave hunting with ground penetrating radar at the historical Hull House cemetery: Geological Society of America Abstracts with Programs, Vol. 38, No. 7.
- Jayakumar, A., Gomlak-Green, S., **Stokes**, P.J., Maletz, J., and Briner, J.P., An inspired objective: motivating the arts in geoscience education: Geological Society of America Abstracts with Programs, Vol. 38, No. 7.
- Poczkalski, R.J., **Stokes**, P.J., Baker, G., Thuman, H., and Rogers, W., Using ground penetrating radar (GPR) to locate potential building foundation remnants at the “People’s Park” in Buffalo, NY: Geological Society of America Abstracts with Programs, Vol. 38, No. 7.
- Wischerath, L.M., **Stokes**, P.J., Maletz, J., Briner, J.P., Baker, G.S., and Jarzyniecki, N., Evaluating the outreach success of a NSF-OEDG program for increasing diversity in the geosciences in western New York: Geological Society of America Abstracts with Programs, Vol. 38, No. 7.
- Poczkalski, R.J., Perez, A.S., Wischerath, L.M., Philipps, W.E., Jayakumar, A., Jarzyniecki, N.A., **Stokes**, P.J., Thuman, H.A., Briner, J.P., and Baker, G.S., Changing Tides: An Invitation to Diversify the Geosciences via Community Outreach and Inquiry-Based Science Education in Eastern Tennessee: Geological Society of America Abstracts with Programs, Vol. 38, No.3.
- Stokes**, P.J., Baker, G.S., and Laub, R.S., Using Ground Penetrating Radar (GPR) to find Pleistocene megafauna fossils at the Hiscock Site in Western New York: Geological Society of America Abstracts with Programs, Vol. 38, No. 2.

2005

- Jarzyniecki, N.A., **Stokes**, P.J., Baker, G.S., and Thuman, H.A., Development of a partnership to increase interest in the geosciences in Buffalo, NY, USA: Geological Society of America Abstracts with Programs, Vol. 37, No. 7, p. 447.
- Stokes**, P.J., Baker, G.S., Birdd, D., Dorsey, D., Splett, J., and Staley, J., Enhancing diversity in the geosciences: Recruiting for the long run: Geological Society of America Abstracts with Programs, Vol. 37, No. 7, p. 261.

2004

- Baker, G.S., **Stokes**, P.J., Birdd, D., Dorsey, D., Splett, J., and Staley, J., Tools and techniques for diversity enhancement in the geosciences through the Buffalo Geosciences Program (BGP): Geological Society of America Abstracts with Programs, Vol. 36, No. 5.

Field Trips & Informal Teaching:

- Invited eSeminar presenter on “Critical incidents, minority earth science majors, and NVivo: Sorting stuff out, real fast” for QSR International (approx. 300 registrants), Fall 2013.
- Organized and participated in 7-day van tour of the Colorado Plateau and Rocky Mountains in Arizona, Utah, and Colorado as part of trip to the Geological Society of America Sectional Meeting in Gunnison, CO (2 students attended and presented), Summer 2013.
- Organized and participated in 6-day van trip entitled “Craters, calderas, and Camarasaurus! Oh, my!” to several National Parks and other geological & cultural sites in Arizona, Utah, Wyoming, Idaho, Montana and Colorado for SAGUARO students and mentors (10 students attended), Spring 2012.
- Organized and participated in 5-day van trip entitled “Across the Rio Grande Rift” to several National Parks and other geological & cultural sites in Arizona, New Mexico, and Colorado for SAGUARO students and mentors (7 students attended), Spring 2011.
- Organized and participated in half-day tour of Mt. Lemmon in Tucson, Arizona for University of Arizona students, friends and families, and other community members as part of Flandrau-Sky Island Project (approx. 30 people attended), Spring 2011.
- Invited presenter on “Geophysics in a nutshell” at “Science in Society” Workshop Series, Department of Aerospace and Mechanical Engineering, University of Arizona, Summer 2010.
- Organized and participated in 5-day van trip entitled “Through the Colorado Plateau” to southeastern Utah, Canyonlands, Arches, and Capitol Reef National Parks for SAGUARO students and mentors (9 students attended), Spring 2010.
- Invited workshop presenter on “Seeing isn’t always believing: An archaeological perspective on ground penetrating radar” at the Council for Northeast Historical Archaeology Annual Conference in Buffalo, NY, Fall 2007.
- Invited speaker for “On the Early History of the Hiscock Site: Results from a Ground Penetrating Radar (GPR) Investigation” at the Buffalo Museum of Science, Spring 2007.
- Invited speaker on “Earth: In Hot Water (Global Climate Change)” for Science Exploration Day at the University at Buffalo, Spring 2007.
- Organized and participated in 5-day van trip to Philadelphia, PA for student presentations at Geological Society of America national conference and geologic field trip to Wissahickon Creek Park (11 students attended), Fall 2006.
- Invited speaker for “Preliminary Results of Ground Penetrating Radar (GPR) Investigation of the Hiscock Site” at the Buffalo Museum of Science, Spring 2006.
- Organized and participated in weeklong van trip to Harrisburg, PA, Lynchburg, VA, and Knoxville, TN, for presentations at two Geological Society of America regional conferences, visits to historic Civil War sites, and tour of Great Smoky Mountain National Park (8 students attended), Spring 2006.
- Invited speaker on “What’s Down There? Imaging the Earth with Radar Waves” for Science Exploration Day at the University at Buffalo, Spring 2006.
- Invited speaker on “Using Ground Penetrating Radar for Near-Surface Investigations” for Archaeology class at Canisius College, Spring 2006.
- Organized and participated in weekend van trip to Sandusky, OH, for a tour of Glacial Grooves State Park (26 students attended), Summer 2005.

Public Relations/Publicity

2016-present

Compendium of media articles -- see <https://penndixie.org/our-history>

2015

"Partnership connect transfer students, geosciences" by Alicia Saposnik, UA News, August 27.

2014

"Outreach to parents could draw more Hispanics to Geosciences" by Alicia Saposnik and Mari N. Jensen, UA News, January 24.

2013

"Geosciences reaches out" by Philip J. Stokes, in University of Arizona Geosciences Newsletter, Summer Edition.

2012

"Earth week to present research" by Stephanie Casanova, Daily Wildcat, March 27.

"EarthWeek to feature student research" by Alicia Saposnik and Mari N. Jensen, UA News, March 26.

2010

"Diversity in Geosciences: National policies to local opportunities" by Philip J. Stokes, in University of Arizona Geosciences Newsletter, Spring Edition.

"Diversity in the geosciences: National policies to local opportunities" by Philip J. Stokes, in GSA Geology & Society Division Newsletter, March.

2009

"Broadening the Geosciences in Southern Arizona" by Pete Brown, Arizona Engineer Online, UA College of Engineering, October 2.

"Cold case revisited: Dorothy and Danielle Pitcher" news clip, KOLD News 13, Tucson, September 14.

2007

"Buffalo "City Girl" conducts Arctic research" by Ellen Goldbaum, UB News Release, May 22.

"Science exploration day to bring 750 students to UB" by Ellen Goldbaum, UB News Release, March 9.

2006

"Students explore science: Hundreds of high school students attend annual UB event" by Jessica Keltz, UB Reporter, March 23, v. 37 (25).

Memberships of Professional Organizations:

Buffalo Association of Professional Geologists, Member, 2003-2007; 2015-present

-Student Vice President, 2006-2007

Geological Society of America, Member, 2004-present

Other Professional Experience: Software

IBM SPSS Statistics 20, QSR NVivo 10, Adobe Creative Suite, Microsoft Office Suite, Rockware Rockworks, Interpex IX1D, Emigma, GSSI RADAN, and Sensors & Software GPR Suite.

Geophysical Equipment

Geonics EM-31; Sensors & Software ground penetrating radar; GSSI ground penetrating radar; GEM Systems magnetometer; & Zonge Engineering GDP32-II CSAMT and NanoTEM.

Workshops Attended

2014, InTeGrate: Broadening Access to the Earth and Environmental Sciences, Tempe, AZ
2011, NASA Center for Astronomy Education (CAE) Legacy Program Teaching Excellence Workshop, Kohala Coast, HI
2006, Emerging Leaders Forum, Leadership Development Center, Buffalo, NY
2003, Leadership Experience and Achievement Program (LEAP), Leadership Development Center, University at Buffalo, Buffalo NY

Professional, Community & University Service:

Avocational Councilor, Paleontological Society, 2024-2026
Member, TEDxBuffalo Organizing Committee, 2023-present
Research Associate, American Museum of Natural History, 2024-present
Co-Founder, Buffalo Eclipse Consortium, 2017-2024
Co-chair, Alumni Advisory Board, Department of Geology, University at Buffalo, 2014-2024
Board Member, Erie County Environmental Management Council, 2017-2021
Travel Grant Judge, University of Arizona Graduate & Professional Student Council, Fall 2013
Student Event Coordinator, Environmental & Engineering Geophysical Society Annual Meeting, Tucson, AZ, Spring 2012
Chair, Earthweek Conference Committee, School of Earth & Environmental Sciences, University of Arizona, Spring 2012.
Ad hoc reviewer of NSF Geosciences Directorate grant proposal, Spring 2011
Webmaster, Department of Geosciences Annual GeoDaze Symposium, University of Arizona, Spring 2010 & Spring 2011
Activity Leader and closing speaker, Geosciences/MESA Saturday Science Academy, University of Arizona, Fall 2009 & Fall 2010
Field Trip Leader, 78th Annual New York State Geological Association Meeting, University at Buffalo, Fall 2006
Pro-bono geophysical consulting for The Landmark Society of the Niagara Frontier at the historic Warren and Polly Hull House, Lancaster, NY, Spring 2006
Student Member, Geophysics Candidate Search Committee, Department of Geology, University at Buffalo, Fall 2006 and Spring 2007
Event supervisor, Western New York Science Olympiad, 2003-2006; 2015
President, Undergraduate Geology Club, University at Buffalo, 2003-2004
Fall trash cleanup of Niagara Falls Gorge, 2002-2004