

## ***CURRICULUM VITAE:***

**Jonathon C. Marshall**

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ResearchGate page: [https://www.researchgate.net/profile/Jonathon\\_Marshall](https://www.researchgate.net/profile/Jonathon_Marshall)

### **EDUCATION**

**N.I.H. Postdoctoral Fellow.** 2004-2006. Yale University, New Haven, CT. 06520. Mentors- Dr. Jeffrey R. Powell and Dr. Gisella Caccone in the Dept. of Ecology and Evolutionary Biology.

**Ph.D.** 2004. Brigham Young University (BYU). Provo, UT. Chair- Dr. Jack W. Sites, Jr. Dissertation topic: *Empirical methods for delimiting species boundaries.*

**B.A.** 1996. University of Utah. Salt Lake City, UT. Biology major with an emphasis in Ecology and Evolution.

**A.S.** 1990. Utah Tech. University. St. George, UT.

**Diploma de Extranjero** 1995. Universidad de León, Spain.

### **APPOINTMENTS**

**Full Professor.** 2018- Present. Department of Zoology, Weber State University (WSU), Ogden, UT. 84408.

**Associate Professor.** 2013-2018. Department of Zoology, Weber State University (WSU), Ogden, UT. 84408.

**Assistant Professor.** 2008-2013. Department of Zoology, WSU, Ogden, UT. 84408.

**Assistant Professor.** 2006-2008. Department of Biology, Southern Utah University (SUU), Cedar City, UT. 84720.

### **ASSOCIATE EDITOR**

**Amphibia-Reptilia.** 2012- Present. Publication of the Societas Europaea Herpetologica. Impact Factor 1.839. <https://brill.com/view/journals/amre/amre-overview.xml?contents=editorialcontent-49636>

**International Journal of Zoology.** 2022- Present. Open access journal through Hindawi Publishing. <https://www.hindawi.com/journals/ijz/editors/>

**The World Scientific Journal.** 2011- 2022. Open access journal through Hindawi Publishing. Evolutionary Biology Editorial Board. <https://www.hindawi.com/journals/tswj/editors/>

#### **FOUNDER/DIRECTORSHIP**

**Founder.** 2014. Multicultural Advancement in Science organization/university club. <https://www.facebook.com/MASinUtah/>

#### **TEACHING EXPERIENCE**

*Weber State University*

Animal Biology  
Principles of Zoology I  
Principles of Zoology II  
Evolutionary Biology (face-to-face, online modalities)  
Genetics (face-to-face, hybrid, and online modalities)  
Herpetology  
The Science of Human Variation: From Sex to Gender and Race to Ethnicity

*Southern Utah University*

General Biology I  
Evolutionary Biology  
Developmental Biology/Embryology  
Herpetology  
History and Literature of Biology  
Senior Research Seminar

*Brigham Young University*

Evolutionary Biology

#### **COMMUNITY OUTREACH**

**Multicultural Advancement in Science (MAS) student club.** (March 2014 – present). <https://www.facebook.com/MASinUtah/info>

MAS is an organization with the aim of providing support, encouragement, and opportunities for community outreach for underrepresented students pursuing degrees and careers in science. We have given presentations and workshops at the Latinos in Action Conferences, elementary, junior high, and high schools, Multicultural Youth Conferences, After School programs, Upward Bound programs, Gear-Up program, Cub scout packs, and a Student 2 Student Summer Summit. We have organized food and clothing drives, film screenings, and visits to WSU campus for Latino students in the Adelante Partnerships and the Family School Partnership. Many of our efforts have been recognized on Univision a Spanish-speaking television network and in Spanish language newspapers. See link above for information and pictures of all our efforts.

**Family School Partnership (FSP) Science, Technology, Engineering, and Math (STEM) Liaison at Weber State University.** (December 2011 – 2016).

FSP is an interdisciplinary organization dedicated to creating pathways to higher education for students from underrepresented populations. It seeks to empower and engage culturally and linguistically diverse students and their families and promotes their participation in academic and community initiatives. FSP was created at the University of Utah and, as such, most FSP students see the University of Utah or Salt Lake Community College as their main options for entering higher education. My goal at FSP is to promote Weber State University as an alternate, and in many cases, much better option.

#### **ACADEMIC HONORS AND AWARDS**

- 2022 Presidential Teaching Excellence Award, Weber State University.
- 2021 Spencer L. Seager Distinguished Teaching Award, College of Science, WSU.
- 2020 Hemingway Collaborative Award for work in “Improving Equity & Inclusion at Weber State University”.
- 2019 Multicultural Advancement in Science (MAS) was nominated for the Presidential Award for Community Engagement
- 2017 Awarded a Putting Student Through (PST) Degree, I was nominated by MAS student Gideon Lomiiko.
- 2016 Nominated for the Super Staff Award (Staff Advisory Board) by MAS student Jackeline Bedoya-Wilkinson.
- 2015 Nominated for Utah Campus Compact Outstanding Service Awards in the WSU Community Engagement Scholarship category.  
Nominated for the Crystal Crest Master Teaching Award, WSU
- 2013 Exemplary Collaboration Award, Weber State University. Steering Committee for hosting the National Conference on Undergraduate Research.
- 2004 American Genetic Association Scholarship to attend Recent Advances in Conservation Genetics course in Front Royal, VA.
- 2003 BYU, University Graduate Mentoring Award.  
BYUGSA Research Award.
- 2002 BYU, Graduate Research Fellowship Ph.D. level.  
BYU, Julia Greenwell College Award.
- 2001 BYU, J.R. and Shauna Larsen Department Award.
- 2000 Finalist, Herpetologists’ League Student Research Award, La Paz, Mexico.
- 1994 Howard Hughes Medical Institute Research Scholarship, University of Utah.

**RESEARCH PUBLICATIONS**

- Ramírez-Bautista, A.; Sites, J.W. Jr.; **Marshall, J.C.**; Cruz-Elizalde, R.; Díaz-Marín, C.A.; Hernández-Salinas, U.; Berriozabal-Islas, C.; García-Rosales, A. Reproduction and sexual dimorphism in the viviparous lizard *Sceloporus palaciosi* (Squamata: Phrynosomatidae) from the Trans-Mexican Volcanic Belt, Mexico. **Acta Zoologica** 102:63 -76 (2021)
- Wollenberg Valero, K.C.; **Marshall, J.C.**; Bastiaans, E.; Caccone, A.; Camargo, A.; Morando, M.; Niemiller, M.L.; Pabijan, M.; Russello, M.A.; Sinervo, B.; Jack W. Sites, J.W. Jr.; Werneck, F.P.; Wiens, J.J.; Steinfartz S. Patterns, Mechanisms and Genetics of Speciation in Reptiles and Amphibians. **Genes** 10:646 (2019)
- Marshall, J.C.**; Bastiaans, E.; Caccone, A.; Camargo, A.; Morando, M.; Niemiller, M.L.; Pabijan, M.; Russello, M.A.; Sinervo, B.; Sites, J.W., Jr.; Vences, M.; Werneck, F.P.; Wiens, J.J.; Steinfartz S. Mechanisms of speciation in reptiles and amphibians: A synopsis. **PeerJ Prepr.** 6:e27279v1 (2018)
- Leyte-Manrique, A.; Hernández-Salinas, U.; Ramírez-Bautista, A.; Mata-Silva, V.; **Marshall, J.C.** Habitat use in eight populations of *Sceloporus grammicus* (Squamata: Phrynosomatidae) from the Mexican Plateau. **Integrative Zoology** 12:198-210 (2017)
- Marshall, J.C.**; Carrethers, N.; Schwab, T.; Beck, G.; Alvarez Gutiérrez, L. The PhD labor market imbalance and its effect on life science departments. **Journal of the Utah Academy of Science, Arts, and Letters** 9: 81-88 (2015)
- Bastiaans, E.; Bastiaans, M.J.; Morinaga, G.; Castañeda Gaytán, J.G.; **Marshall, J.C.**; Bane, B; Méndez de la Cruz, F.; Sinervo, B. Female preference for sympatric vs. allopatric male throat color morphs in the mesquite lizard (*Sceloporus grammicus*) species complex. **PLOS ONE** 9: e93197 (2014)
- Shaney, K.; **Marshall, J.C.** Herpetofaunal biodiversity survey along the Wasatch mountains, Utah: A focus on Morgan and Weber Counties. **Southwestern Center for Herpetological Research Bulletin** 3: 17-22 (2013)
- Bastiaans, E.; Morinaga, G.; Castañeda Gaytán, J.G.; **Marshall, J.C.**; Sinervo, B. Male agonistic behavior varies with throat color in two populations of the mesquite lizard (*Sceloporus grammicus*) species complex with different color morphs. **Behavioral Ecology** 24: 882-986 (2013)
- Marshall, J.C.** The principal factors that impact the soaring rates of Latino childhood obesity. **The American Mosaic: The Latino American Experience.** ABC-CLIO, 2012. Web. 29 Oct. (2012)
- Ramírez-Bautista, A.; Leyte-Manrique, A; **Marshall, J.C.**; Smith, G.R. Effects of elevation on life history among populations of the *Sceloporus grammicus* complex (Phrynosomatidae) in México. **Western North American Naturalist** 71: 215-221 (2011)

- Barata, M.; Perera, A.; Harris, D.J.; van der Meijden, A.; Carranza, S.; Ceacero, E.; Garcia-Muñoz, E.; Gonçalves, D.; Henriques, S.; Jorge, F.; **Marshall, J.C.**; Pedrajas, L.; Sousa, P. New observations of amphibians and reptiles in Morocco, with a special emphasis on the Eastern region. **Herpetological Bulletin** 16: 4-14 (2011)
- Parmakelis, A.; Moustaka, M.; Poulakakis, N.; Louis, C.; Slotman, M.A.; **Marshall, J.C.**; Awono-Ambene, P.H.; Antonio-Nkondjio, C.; Simard, F.; Caccone, A.; Powell, J.R. Anopheles immune genes and amino acid sites evolving under the effect of positive selection. **PLOS ONE** 5: e8885 (2010)
- Marshall, J.C.**; Buttars, P.; Callahan, T.; Dennehy, J.J.; Harris, D.J.; Lunt, B.; Mika, M.; Shupe, R. In the academic job market, will you be competitive? A case study in ecology and evolutionary biology. **Israel Journal of Ecology and Evolution** 55:381-392 (2009)
- Perez-Losada, M.; Ricoy, M.; **Marshall, J.C.**; Dominguez, J. Phylogenetic assessment of the earthworm *Aporrectodea caliginosa* species complex (Oligochaeta, Lumbricidae) based on mitochondrial and nuclear DNA sequences. **Molecular Phylogenetics and Evolution** 52:293-302 (2009)
- Ramirez-Bautista, A.; Hernandez-Ramos, D.; Rojas-Martinez; **Marshall, J.C.** Fat bodies and liver mass cycles in *Sceloporus grammicus* (Squamata: Phrynosomatidae) from southern Hidalgo, Mexico. **Herpetological Conservation and Biology** 4:162-170 (2009)
- Marshall, J.C.**; Pinto, J.; Charlwood, J.D.; Gentile, G.; Santolamazza, F.; Simard, F.; della Torre, A.; Donnelly, M.J.; Caccone, A. Exploring the origin and degree of genetic isolation of *An. gambiae* from the islands of São Tomé and Príncipe, potential sites for testing transgenic-based vector control. **Evolutionary Applications** 1: 631-644 (2008)
- Parmakelis, A.; Slotman, M.A.; **Marshall, J.C.**; Awono-Ambene, P.; Antonio-Nkondijio, C.; Simard, F.; Caccone A.; Powell J.R. The molecular evolution of four anti-malarial immune genes in the *Anopheles gambiae* species complex. **BMC Evolutionary Biology** 8: e79 (2008)
- Slotman, M.A.; Parmakelis, A.; **Marshall, J.C.**; Awono-Ambene, P.; Antonio-Nkondijio, C.; Simard, F.; Caccone A.; Powell J.R. Patterns of selection on three anti-malarial genes in malaria vectors: evidence for adaptive evolution in *LRM1M1* in *Anopheles arabiensis*. **PLOS ONE** 2: e793 (2007)
- Marshall, J.C.**; Arèvalo, E.; Benavidas, E.; Sites, J.; Sites, J.W. Jr. Delimiting species: comparing methods for Mendelian characters using lizards of the *Sceloporus grammicus* (Squamata: Phrynosomatidae) complex. **Evolution** 60: 1050-1065 (2006)
- Crandall, K.A. and **Marshall, J.C.** An assessment of the threatened subspecific status of the Preble's meadow jumping mouse (*Zapus hudsonius preblei*) based on current molecular data sets. **Report for the State of Wyoming, Office of the Attorney General** (2006)
- Lee, J.; **Marshall, J.C.**; Schmitz O.J.; Caccone A. Genetic divergence of Connecticut *Melanoplus femurrubrum* populations. **Journal of Heredity** 97: 290-293 (2006)
- Marshall, J.C.**; Powell, J.R.; Caccone. A. Phylogenetic relationships of five major Malaria (*Plasmodium falciparum*) vectors within the mosquito subgenus *Cellia*. **The American Journal of Tropical Medicine and Hygiene** 73: 749-752 (2005)

- Leyte, A.; Hernández, U.; Uzcanga, L.; Chávez, E., Domínguez, J.; del Carmen, M.; **Marshall, J.C.**; Ramírez-Bautista, A. El complejo *Sceloporus grammicus*, un grupo de largatillas en especiación. **Boletín de la Sociedad Herpetológica de México** 14: 18-24 (2005)
- Jimenez-Cruz, E.; Ramírez-Bautista, A.; **Marshall, J.C.**; Lizana, M.; Nieto-Montes de Oca, A. Reproductive cycle of the *Sceloporus grammicus* (Squamata: Phrynosomatidae) from Teotihuacán, México. **The Southwestern Naturalist** 50:178-187 (2005)
- Sites, J.W., Jr. and **Marshall, J.C.** Operational criteria for delimiting species. **Annual Review of Ecology, Evolution, and Systematics** 35: 199-227 (2004)
- Agapow, P.M.; Bininda-Emonds, O.R.P.; Crandall, K.A.; Gittleman, J.L.; Mace, G.M.; **Marshall, J.C.**; Purvis, A. The impact of species concept on biodiversity studies. **Quarterly Review of Biology** 79: 161-179 (2004) \*authors names are in alphabetical order
- Marshall, J.C.** and Sites, J.W. Jr. Un resumen de los métodos para delimitar especies. **Boletín de la Sociedad Herpetológica de México** 11: 1-8 (2004)
- Ramirez-Bautista, A.; Jimenez-Cruz, E.; **Marshall, J.C.** Comparative life history for populations of the *Sceloporus grammicus* complex. **Western North American Naturalist** 64: 175-183 (2004)
- Leavitt, D.H.; **Marshall, J.C.**; Crandall, K.A. The search for the seed of Lehi: How defining alternative models helps in the interpretation of genetic data. **Dialogue- A Journal of Mormon Thought** 36: 134-150 (2004)
- Marshall, J.C.** and Ramírez-Bautista, A. Politics, Science, and Global Tensions. **Trends in Ecology and Evolution** Vol. 19, pp. 117-118 (2004)
- Sites, J.W. Jr. and **Marshall, J.C.** Delimiting species: A Renaissance issue in systematic biology. **Trends in Ecology and Evolution** 18: 462-470 (2003)
- Marshall, J.C.** and Sites, J.W. Jr. A comparison of nuclear and mitochondrial cline shapes in a hybrid zone in the *Sceloporus grammicus* complex (Squamata; Phrynosomatidae). **Molecular Ecology** 10: 435-449 (2001)
- Harris, D.J.; **Marshall, J.C.**; Crandall, K.A. Squamate relationships based on *C-mos* nuclear DNA sequences - increased sampling improves support. **Amphibia-Reptilia** 22: 235-242 (2001)
- Harris, D.J.; Sinclair, E.A.; Mercader N.L.; **Marshall, J.C.**; Crandall, K.A. Squamate relationships based on *C-mos* nuclear DNA sequences. **Herpetological Journal** 9: 147-151 (1999)

#### **OPINION PIECES, GOVERNMENT REPORTS, POPULAR ARTICLES, ETC.**

- Tonga'onevai, U. and **Marshall, J.C.** Sitake's historic hiring should carry well beyond football for Pacific Islanders. Sunday Opinion/Editorial. **The Salt Lake Tribune** May 22 (2016)
- Marshall, J.C.** Academic rank did not bar BYU from invite. Sunday Opinion/Editorial. **The Salt Lake Tribune** June 27 (2010)

Zimmer, C. What is a species? **Scientific American** June Edition pp. 72-76 (2008)  
**I was interviewed and quoted in the article.**

## RESEARCH GRANTS

- 2018 NSF S-STEM (Scholarships in STEM), Strand 1: S-STEM Institutional Capacity Building, The WEber STate (WEST) Scholars Program, Covey, T. (PI), J.C. Marshall (co-PI), B. Rague (co-PI) 5-year Grant beginning Fa19. (\$648,798)
- 2015 Summer Undergraduate agricultural biotechnology Research Experience (SURE). This grant is to support 8-10 undergraduate students each year to in conduction 10-week research programs on the campus of Utah State University. The grant targets underrepresented students in science. The grant provides students with housing and a \$4,000 stipend. Lead Project Directors: Dr. Christopher J. Davies and Dr. Aaron J. Thomas. Funding Agency: Undergraduate Research and Extension Experiential Learning Fellowships (Program Code – A7401) Utah State University. Amount ~\$200,000. I am a collaborator on the grant and responsible for recruiting Weber State University students from underrepresented populations for the program.
- 2014 Ecological genomics and gene expression in salamanders of Germany and Israel/Palestine. Hemingway Research Grant, WSU. (\$905.00 for travel to field sites in Israel)
- 2013 A history of species delimitation methods applied in the *Sceloporus grammicus* species complex and what it tells us about future research. Funds used to attend SEH 17<sup>th</sup> European Congress of Herpetology, Veszprém, Hungary. (\$712.00 US)
- 2012 Speciation, hybrid zones, and speciation. Hemingway Faculty Vitality Grant, WSU (2012). Funds used to attend the 7<sup>th</sup> World Congress of Herpetology in Vancouver, BC, Canada in August of 2012. I gave an oral presentation in a symposium I co-organized and chaired. (\$1199.00 US).
- Computing and imaging systems for genetic analysis. Dee Family Technology Award, WSU. J.B. Clark and J.C. Marshall (\$2346.78 US.)
- Shaney, K. Investigating a Potential Hybrid Zone in Fence Lizards. George S. & Dolores Dore Eccles Foundation, WSU (2012). Kyle is a WSU undergraduate student and I am the faculty mentor on project. Funds are being used for sequencing genes and collecting addition lizard samples. (\$910 US).
- Ruth Patiño Stubbs (Lead Project coordinator). Creating Pathways to College Initiative (Expanded). College Access Network of Utah, ImPACT Subgrant (2012). I am a partner on the grant and participating in the College Summer Summit teaching students from underrepresented populations during two separate 3 day summits to prepare for ACT and college. (\$49,933 US).
- 2011 Bastiaans, B.; Sinervo, B. Sexual signal variation within and between populations of an incipiently speciating lizard. National Science Foundation Doctoral Dissertation Improvement Grant (2011). I am providing collaborative support for this grant. (\$12,000 US).

- 2009 Harris, D.J. Gene flow across the Pillars of Hercules: the role of North Africa in the postglacial recolonization of Europe (€80,000). Fundação para a Ciência e a Tecnologia (FCT). Portuguese Science Ministry PTDC/BIA-BDE/74349/2006 (2009). I was a senior field consultant on this grant. (€80,000).
- Dee Family Technology Award. D(ee)NA sequencing and editing and phylogenetic analysis station. J.C. Marshall and J.B. Clark. (\$5,957.99).
- Hemingway New Faculty Award to give oral presentation at Joint International Evolution meetings for the Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists, June, 2009, University of Idaho, Moscow, ID. Research, Scholarship and Profession Growth, Office of the Provost, WSU (\$928)
- Faculty Mentor for Paul Buttaris who received a Weber State Undergraduate Research Travel Award to present poster at Joint International Evolution meetings, Moscow, ID (\$804)
- 2007 Southern Utah University Provost's Faculty Development Grant (\$3,100).
- 2005 I aided in the writing of and analyzed the preliminary data for a NIH grant titled "Genetic Studies of African *Anopheles* Vectors of Malaria" (RO1 AI046018-05) awarded to Dr. Jeffrey Powell (Ecology and Evolutionary Biology, Yale University), May 15, 2005.
- 2003 National Science Foundation Dissertation Improvement Grant- Species boundaries and phylogenetic relationships in chromosome races of the *Sceloporus grammicus* complex. Award # DEB 03-09103. (\$12,000).
- 2003 Mentor for an undergraduate receiving an ORCA (Office for Research and Creative Activities, BYU) research grant (\$1,500).
- 2002 BYU Graduate Student Association Travel Grant (\$400).
- 2001 Grant-in-Herpetology from the Society for the Study of Amphibians and Reptiles (\$500).

#### **UNDERGRADUATE & GRADUATE STUDENT RESEARCH/MENTORING**

Since 2008 At Weber State University I have mentored more than 50 undergraduate students. This has resulted in 5 undergraduate presentations at scientific meetings, 4 undergraduate research grants, and 3 publications with undergraduate student co-authors.

- 2008-11 I served as a member of the Ph.D. committee for Adrian Leyte at the State University of Hidalgo, Mexico.
- 2006-08 Co-Mentor 4 SUU undergraduate student research projects.
- 2005 Research mentor for 2 undergraduate students from underrepresented groups involved in the student training in academic research (STARS) program at Yale University.



## INVITED SEMINARS/WORKSHOPS/PANELS

- 2020 Panelist for Faculty/Staff WSU Townhall Meeting. I was asked to participate in discussion about current racial tensions, BLM movement, how to support BIPOC students, etc.
- Panelist for Student WSU Townhall Meeting. A Conversation about Race. I was asked to participate in discussion about current racial tensions.
- Presented a workshop titled “The biology of viruses, Covid, and vaccinations” to Mestizo Arts and Activism a collective of high school and college student involved in social justice issue, community activism, etc. in Salt Lake City.
- 2018 El multiculturalismo el las ciencias y cómo podemos apoyar estudiantes de grupos bajo representados, 4-day workshop I organized and taught, Universidad de Tarapacá, Arica, Chile.
- Pedagogias Innovadoras y Participativas, Panel I participated in with Dr. Patricia Quijada, University of California, Davis; Dr. Leticia Alvarez, University of Utah; Dr. Ines Gil Jaurena, UNED, España. Universidad de Tarapacá, Arica, Chile.
- La enseñanza de las ciencias en el siglo XXI, **Keynote speech** for the VI Jornada Docente: Innovación e Investigación en Docencia Universitaria, Universidad de Tarapacá, Arica, Chile.
- Apoyando una ciencia multicultural, **Conference inaugural talk** for the III Congreso Regional de Educación en Ciencias ICEC (Indagacion Cientificas para la Educación en Ciencias). Universidad de Tarapacá, Arica, Chile.
- 2016 La relevancia de la gestion del conocimiento y los estilos de liderazgo como elementos criticos para transformer la education y favorecer la integracion social, Universidad de Tarapaca, Arica, Chile
- Dialogo de educacion, Los desafios de gestion del conocimiento en contextos de diversidad dentro de las instituciones de educacion, Universidad de Tarapaca, Arica, Chile
- Straight Outta Compton Panel Discussion, Black Scholars United, Weber State University
- Faculty Teaching and Learning Symposium Panel, Multicultural Advancement in Science, WSU
- 2015 A history of species delimitation methods and how uncertainty can be good. Southern Utah University. Invited by Dr. Matt Ogburn.
- 2013 A history of species delimitation methods applied in the *Sceloporus grammicus* species complex and what it tells us about future research. University of Bielefeld, Germany. Invited by Dr. Sebastian Steinfartz.

How to publish, a graduate student workshop (done jointly with Sebastian Steinfartz, University of Bielefeld, Germany). SEH 17<sup>th</sup> European Congress of Herpetology, Veszprém, Hungary

2009 The importance of applying rigorous methods for species delimitation. Universidade do Porto, Centro de Investigação em Biodiversidade e Recursos Genéticos, Vairão, Portugal. Invited by Dr. D. James Harris.

Genetics of malaria transmission. City University of New York, Queens College, NYC, New York. Ecology and Evolution of Infectious Disease course. Invited by Dr. John Dennehy.

2008 Undergraduate research in evolutionary genetics. Weber State University, Ogden, Utah. Invited by Department of Zoology.

2006 Lizards, mosquitoes, and species boundaries. University of Central Arkansas, Conway, Arkansas. Invited by Department of Biology.  
Lizards, mosquitoes, and species boundaries. Southern Utah University, Cedar City, Utah. Invited by Department of Biology.

2005 Vector dynamics of *Anopheles gambiae*. Parasitology and Vector Biology Seminar. School of Epidemiology and Public Health, Yale School of Medicine, New Haven, Connecticut. Invited by Dr. Diane McMahon-Pratt.

2004 Of allozymes, chromosomes, and DNA. Yale University, New Haven, Connecticut. Invited by Dr. Jeffrey Powell and Dr. Gisella Caccone.

2001 Comparando clines en una zona de hibridacion de la lagartija *Sceloporus grammicus*. UNAM, Iztacala, Mexico. Invited by Dr. Aurelio Ramirez.

#### **CONTRIBUTED PRESENTATIONS**

2020 WSU 22nd Annual Diversity Conference. Connections, Obstacles, and Opportunities: Employing Intersectionality to Transform Racial Hierarchy into Humanity. I gave a one-hour seminar/talk titled Title: My Role as an Educator and Advisor in Shaping Diverse and Inclusive Communities in Math and Science Education

2016 Remembering the Diverse Contribution of Science's Past and How to Reshape Science's Future, WSU, Diversity Conference

Remembering the Diverse Contribution of Science's Past and How to Reshape Science's Future, WSU, Diversity Conference

2015 Multicultural Advancement in Science (MAS): Supporting marginalized students' educational trajectories and faculty mentorship. J.C. Marshall. Presented at the Joint meeting of the Society for the Study of Evolution, American Society of Naturalist, and the Society of Systematic Biologist, Guarujá.

- 2013 A history of species delimitation methods applied in the *Sceloporus grammicus* species complex and what it tells us about future research. SEH 17<sup>th</sup> European Congress of Herpetology, Veszprém, Hungary.
- A history of species delimitation methods applied in the *Sceloporus grammicus* species complex and what it tells us about future research. Joint International Evolution meetings for the Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists, Snowbird, Utah. *Invited speaker at SSB symposium: New molecular approaches to species delimitation.*
- 2012 Perspectives on speciation research: Involving and sharing discoveries with a wider audience. 7<sup>th</sup> World Congress of Herpetology, Vancouver, BC, Canada. *I organized with co-Chair Dr. Sebastian Steinfartz, Universität Bielefeld, Germany, the Symposium- Speciation in amphibians and reptiles: From pattern to processes and mechanism.*
- 2009 Comparing species delimitation methods: how well do genes & ecology jive with character-based and distance methods? An assessment in lizards of the *Sceloporus grammicus* complex. Joint International Evolution meetings for the Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists, University of Idaho, Moscow, ID.
- 2007 Genetic characterization of *Anopheles gambiae* from the islands São Tomé and Príncipe. Presented at annual meeting of New England Molecular Evolutionary Biologist, Queens College, Queens, New York.
- Exploring the origin and genetic isolation of *Anopheles gambiae* from the islands São Tomé and Príncipe: implications for testing transgenic-based vector control. Presented at annual meeting for the Society for the Study of Evolution at Christchurch, New Zealand.
- 2005 Geographic differentiation at multiple loci in *Anopheles gambiae* populations from São Tomé and Príncipe. Presented at the European Molecular Biology Organization Workshop ‘Molecular and Population Biology of Mosquitoes and other Disease Vectors’ at the Orthodox Academy, Kolybari, Crete, Greece.
- Geographical divergence of populations of *Anopheles gambiae* on the islands of São Tomé and Príncipe. Presented at the Yale University, EEB Annual Retreat, Westbrook, Connecticut.
- 2004 Comparing methods of delimiting species. Presented at annual meeting for the Society for the Study of Evolution at Fort Collins, Colorado.
- 2003 An eclectic approach to delimiting species boundaries in the *Sceloporus grammicus* complex. Presented at the 83<sup>rd</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists, Manaus, Brazil.
- 2002 Phylogenetic species and chromosomal evolution within the *Sceloporus grammicus* complex. Presented at the 82<sup>nd</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists, Kansas City, Missouri.
- 2001 Testing operational species concepts. Young Systematists Forum, Museum of Natural History, London, UK

- 2000 A comparison of nuclear and mitochondrial cline shapes of a hybrid zone in the *Sceloporus grammicus* complex. Presented at the 80<sup>th</sup> Annual Meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico.

#### **UNDERGRADUATE STUDENT PRESENTATIONS**

- 2015 Microaggressions and telomere length: bringing social justice into the biology classroom. Poster presentation by Patricia Robello at the 2015 meeting of the Utah Academy of Science, Arts, and Letters at Snow College in Ephraim, Utah.
- Research productivity, the H index, and what happens when we have a flood of Ph.D.s in the life sciences. Poster presentation by Patricia Robello at the 2015 meeting of the Utah Academy of Science, Arts, and Letters at Snow College in Ephraim, Utah.
- 2009 Academic job market, will you be competitive? A case study in ecology and evolutionary biology. Presented by Weber State University undergraduate student Paul Buttars. Joint International Evolution meetings for the Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists, University of Idaho, Moscow, ID.
- Academic job market, will you be competitive? A case study in ecology and evolutionary biology. Presented by Weber State University undergraduate student Paul Buttars. Weber State University Undergraduate Research Day at the Utah State Capitol. SLC, Utah
- 2008 Academic job market, will you be competitive? A case study in ecology and evolutionary biology. Presented by Weber State University undergraduate student Paul Buttars. Utah Council of Undergraduate Research. Westminster College, Salt Lake City, Utah.

#### **SERVICE/ENHANCEMENT ACTIVITIES**

##### *Ongoing Activities*

- 2021- present Wildcat Scholar Advisory Board
- 2019- present Fairpark Community Council Executive Board Member
- 2013- present University Scholarship Committee Member, WSU.
- 2013- present Chair, College of Science Scholarship Committee, WSU.
- 2009- present College of Science Scholarship Committee Member, WSU.

##### *Completed Activities*

- 2021 COS Senior Development Officer Search Committee
- 2020 College Rank, Tenure and Promotion Committee.

- University Director for Scholarships Search Committee.
- Diversity, Equity, and Inclusion Coordinator Search Committee.
- COS Dean Evaluation Committee.
- COS Pre-Med Interview Committee Member.
- 2019 Guest Editor. *Genes*. Special issue “Evolutionary Genetics of Reptiles and Amphibians”
- WSU Diversity Conference Organizing Committee.
- WSU Diversity Conference Chair of the tabling subcommittee.
- Utah Conference of Undergraduate Research Organizing Committee
- Utah Conference of Undergraduate Research Chair of poster session.
- WSU Intercultural Welcome Organizing Committee.
- 2018 Grant Reviewer for the Rufford Foundation. [www.rufford.org](http://www.rufford.org)
- 2017 WSU Diversity Conference Organizing Committee
- Grant Reviewer. Biodiversity Institute at University of Wyoming.
- Outside reviewer for the tenure application of Dr. Joe Wilson at Utah State University.
- 2014-17 Division of Student Affairs Faculty Advisory Committee, WSU.
- 2014 Latinos in Action (LIA) Conference Organization Committee, WSU.
- Latinos in Action STEM Workshop, WSU.
- 2009-13 University Environmental Issues Committee Member, WSU.
- 2010-12 Served on University Steering Committee for the National Conference on Undergraduate Research 2012 hosted by Weber State University.
- Served as co-Chair for Poster Session for the National Conference on Undergraduate Research 2012 hosted by Weber State University.
- 2006-08 Provost Search Committee Member, Office of President, SUU.
- Biology Department Public Relations Committee Member, SUU.

**Professional Reviewer Service:**

*Conservation Genetics, Journal of Heredity, Amphibian-Reptilia, Israel Journal of Ecology and Evolution, Systematic Biology, BMC Evolutionary Biology, BMC Biology, Check List: Journal of species lists and distribution, Molecular Ecology*

*Herpetological Journal, North American Fisheries Management, Journal of Theoretical Biology, Genetics, Animal Conservation, Molecular Phylogenetics and Evolution, Biochemical Genetics, Herpetological Review, Biological Journal of the Linnean Society, Evolutionary Analysis (2<sup>nd</sup> Edition) Scott Freeman and Jon C. Herron; Prentice Hall Inc.*

## **MEDIA APPEARANCES/INTERVIEWS**

**Jake Scott and Tony Parks Show, 1280 The Zone.** (May 2016).

I was interviewed on this sports talk radio program about an Op-Ed I had co-authored with Ullyses Tonga'onevai about race, commodification of Pacific Islanders, etc. in college football.  
[http://kfanav.s3.amazonaws.com/20160525\\_052516\\_jonathan-marshall-WEB.mp3](http://kfanav.s3.amazonaws.com/20160525_052516_jonathan-marshall-WEB.mp3)

**Univision. Canal 32, Adelante Visita.** (February 2016).

MAS club hosted and organized a campus visit for around 75 Latino elementary school students that participate in the Adelante Partnership. The goal of the visit was to expose underrepresented students to the idea of careers in science and have witness bilingual MAS students of color actually pursuing these kinds of careers. I was interviewed in Spanish for the Spanish speaking network.

<https://www.facebook.com/Univision32/videos/998484593557278/>

**Utah Education Network, Channel 9, SciFi Friday.** (March 2012).

SCiFi Friday is a television program that aims to old black and white films as a 'launching pad to talk about real science concepts and careers.' I was interview by Rich Finlinson in conjunction with a showing of the 1951 film "Bride of the Gorilla".

[http://www.uen.org/tv/scifi/bride\\_gorilla.shtml](http://www.uen.org/tv/scifi/bride_gorilla.shtml)

**Fox 13 News Broadcast.** (November 2011).

I was interviewed by Fox News and several print newspaper reporters about extracting a baby rattlesnake out of the back of a computer found in the WSU Shipping and Receiving Building.  
<https://www.facebook.com/jonathan.marshall.370/videos/vb.1228072418/2681868205763/?type=3&theater>

## **LANGUAGES**

Fluent in Spanish and English.

## **OUTSIDE INTERESTS**

I enjoy spending time with my family, traveling, snowboarding, climbing mountains, mountain biking, hiking, river running, and playing pickleball.