

CURRICULUM VITAE
ANDREA BONISOLI ALQUATI

Assistant Professor of Environmental Toxicology
California State Polytechnic University, Pomona
Department of Biological Sciences
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EDUCATION

- | | |
|--|-------------|
| PhD, Ecology
University of Milan, Milan, Italy
<i>Dissertation:</i> The Avian Egg as a Cocktail of Maternal Effects
<i>Advisor:</i> Prof. Nicola Saino | 2010 |
| MSc, Management and Analysis of Natural Environments (<i>Summa cum laude</i>)
University of Milan, Milan, Italy
<i>Advisor:</i> Prof Nicola Saino | 2005 |
| BSc, Natural Sciences (<i>Summa cum laude</i>)
University of Milan, Milan, Italy | 2003 |

POSITIONS

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|---|---------------------------------|
| Assistant Professor of Environmental Toxicology
California State Polytechnic University, Pomona
Pomona, CA | August 2016 – current |
| Postdoctoral Research Associate
Louisiana State University, Baton Rouge, LA
Advisors: Sabrina Taylor; Philip C. Stouffer | March 2015 – August 2016 |
| Postdoctoral Research Associate
University of South Carolina, Columbia, SC
Advisor: Timothy A. Mousseau | June 2010 – March 2015 |

RESEARCH INTERESTS

Environmental contamination, species sensitivity to contaminants, evolutionary response to contaminants, genetic damage, nuclear accidents, oil pollution, oxidative stress, radioactive contamination, mutation | Epigenetic inheritance, egg quality, intra-familial conflict, maternal effects

PEER-REVIEWED PUBLICATIONS

Citations: 1901; h-index: 26 (source: Google Scholar, Sep 2021)

1243; h-index: 20 (source: Web of Science, Sep 2021)

* indicates undergraduate student supervised

** indicates graduate student supervised or co-supervised

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41. Snider A.M., Perez-Umphrey A.A., **Bonisoli-Alquati A.**, Stouffer P.C., Taylor S.S. Comparing the utility of gizzard and fecal samples for dietary metabarcoding in Seaside Sparrows. *Ornithological Applications*. *In press*.
40. Perez-Umphrey A.A., Johnson C.B., **Bonisoli-Alquati A.**, Snider, A.M., Stouffer P.C., Taylor S.S., Sex and habitat drive hantavirus prevalence in marsh rice rat populations impacted by the Deepwater Horizon oil spill. *Ecosphere*. *In Press*.
39. Moyo S., Bennadji H., Laguaitte D., Perez-Umphrey A.A., Snider A.M., **Bonisoli-Alquati A.**, Olin J.A., Stouffer P.C., Taylor S.S., López-Duarte P., Roberts B., Hooper-Bui L., Polito M.J. 2021. Stable isotope analyses identify foraging niche partitioning between sympatric terrestrial vertebrates in coastal saltmarshes with differing oiling histories. *PeerJ* 9:e11392
38. Mothersill C., [...] **Bonisoli-Alquati A.**, and 20 more authors. 2020. From tangled banks to toxic bunnies; a reflection on the issues involved in developing an ecosystem approach for environmental radiation protection. *International Journal of Radiation Biology*. doi: 10.1080/09553002.2020.1793022
37. Rhodes Jr. O.E., [...] **Bonisoli-Alquati A.**, and 50 more authors. 2020. Integration of Ecosystem Science into Radioecology: A Consensus Perspective. *Science of the Total Environment* 740: 140031
36. **Bonisoli-Alquati A.**, Xu W., Stouffer P.C., Taylor S.S. 2020. Transcriptome analysis indicates a broad range of toxic effects of Deepwater Horizon oil on Seaside Sparrows. *Science of the Total Environment* 720: 137583.
35. Formenti G., Chiara M., Poveda L., Francoijs K.J., **Bonisoli-Alquati A.**, Canova L., Gianfranceschi L., Horner D.S., Saino, N. 2019. SMRT long-read sequencing and Direct Label and Stain optical maps allow the generation of a high-quality genome assembly for the European barn swallow (*Hirundo rustica rustica*). *GigaScience* 8: 1–9.
34. **Bonisoli-Alquati A.**, Ostermiller S.**, Beasley D.E.**, Welch S.M., Møller A.P., Mousseau T.A. 2018. Faster development covaries with higher DNA damage in grasshoppers (*Chorthippus albomarginatus*) from Chernobyl. *Physiological and Biochemical Zoology* 91: 776–787.
[covered by: BBC News Radio]
33. **Bonisoli-Alquati A.**, Stouffer P.C., Woltmann S., Turner E., Taylor S.S. 2016. Incorporation of oil carbon in a terrestrial bird. *Environmental Research Letters* 11: 114023.
[covered by: BBC, Sierra Magazine, EcoWatch, Inside Science, United Press International, Breitbart News]
32. Brechignac F., Oughton D., Mays C., Barnthouse L.W., Beasley J.C., **Bonisoli-Alquati A.**, Bradshaw C., Brown J., Dray S., Geras'kin S., Glenn T., Higley K., Ishida K., Kapustka L.A., Kuhne W., Lynch M., Mappes T., Mihok S., Møller A.P., Mothersill C., Mousseau T.A., Otaki J., Pryakhin E., Rhodes Jr, O.E., Salbu B., Strand P. 2016. Addressing ecological effects of radiation on populations and ecosystems to improve protection of the environment against radiation: Agreed statements from a Consensus Symposium. *Journal of Environmental Radioactivity* 158: 21-29.

31. Einor D.**, **Bonisoli-Alquati A.**, Costantini D., Mousseau T.A., Møller A.P. 2016. Ionizing radiation, antioxidant response and oxidative damage: A meta-analysis. *Science of the Total Environment* 548-549: 463-471.
30. **Bonisoli-Alquati A.**, Koyama H., Tedeschi D., Kitamura W., Suzuki H., Ostermiller S.**, Arai E., Møller A.P., Mousseau T.A. 2015. Abundance and genetic damage of barn swallows from Fukushima. *Scientific Reports* 5: 9432.
- [covered by: CBS News, ScienceDaily, National Geographic Italia]**
29. **Bonisoli-Alquati A.** 2014. Avian genetic ecotoxicology: DNA of the canary in the coalmine. *Current Zoology* 60: 285-298.
28. Galván I., **Bonisoli-Alquati A.**, Jenkinson S., Ghanem G.E., Wakamatsu K., Mousseau T.A., Møller A.P. 2014. Chronic exposure to low-dose radiation at Chernobyl favors adaptation to oxidative stress in birds. *Functional Ecology* 28: 1387–1403.
- [covered by: Nature, Science, The Economist, The Independent, International Business Times, Haaretz, ScienceDaily, ScienceNews.com, Gizmodo, The Verge, Corriere della Sera, OggiScienza]**
27. Møller A.P., Rudolfson G., **Bonisoli-Alquati A.**, Mousseau T.A. 2014. Aspermy, sperm quality and radiation in Chernobyl birds. *PLoS ONE* 9: e100296.
- [covered by: BBC, Audubon]**
26. Costantini D., **Bonisoli-Alquati A.**, Rubolini D., Caprioli M., Ambrosini A., Romano M., Saino N. 2014 Nestling rearing is antioxidant demanding in female barn swallows (*Hirundo rustica*). *Naturwissenschaften* 101: 541–548.
25. Rubolini D., Fusani L., **Bonisoli-Alquati A.**, Canoine V., Caprioli M., Romano M., Ambrosini R., Dessì-Fulgheri F., Saino N. 2014. Effects of egg and circulating testosterone on ring-necked pheasant (*Phasianus colchicus*) male traits and combat outcome. *Ethology* 120: 64–76.
24. Møller A.P., **Bonisoli-Alquati A.**, Mousseau T.A. 2013. High frequency of albinism and tumors in free-living birds at Chernobyl. *Mutation Research: Genetic Toxicology and Environmental Mutagenesis* 757: 52–59.
- [covered by: ScienceDaily, Asian Scientist]**
23. Mousseau, T.A., Welch S.M., Chizhevsky I., Bondarenko O., Milinevsky G., Tedeschi D., **Bonisoli-Alquati A.**, Møller, A.P. 2013. Tree rings reveal extent of exposure to radiation in Scots pine, *Pinus sylvestris*. *Trees – Structure and Function* 27: 1443–1453.
- [covered by: BBC, Asian Scientist]**
22. Beasley D.E.**, **Bonisoli-Alquati A.**, Mousseau, T.A. 2013. The use of fluctuating asymmetry as a measure of environmentally induced developmental instability: A meta-analysis. *Ecological Indicators* 30: 218–226.
21. Laskemoen T., Albrecht T., **Bonisoli-Alquati A.**, Cepak J., de Lope F., Hermosell I.G., Johannessen L.E., Kleven O., Møller A.P., Mousseau T.A., Reynolds A.M., Robertson R.J., Rudolfson G., Saino N., Vortman Y., Lifjeld J.T., 2013. Variation in sperm morphometry and sperm competition among barn swallow (*Hirundo rustica*) populations. *Behavioral Ecology and Sociobiology* 67: 301-309.
20. Baratti M., Dessì-Fulgheri F., Ambrosini R., **Bonisoli-Alquati A.**, Caprioli M., Goti E., Matteo A.**, Monnanni R., Ragionieri L., Ristori E., Romano M., Rubolini D., Scialpi A., Saino N. 2012. MHC

genotype predicts mate choice in the ring-necked pheasant *Phasianus colchicus*. *Journal of Evolutionary Biology* 25: 1531-1542.

19. Møller A.P., **Bonisoli-Alquati A.**, Rudolfsen G., Mousseau T.A. 2012. Elevated mortality among birds in Chernobyl as judged from biased sex and age ratios. *PLoS One* e35223.

[covered by: ScienceDaily, Mother Jones]

18. Beasley D.E.**, **Bonisoli-Alquati A.**, Welch S.M., Møller A.P., Mousseau T.A. 2012. Effects of parental radiation exposure on developmental instability in grasshoppers (*Chorthippus albomarginatus*). *Journal of Evolutionary Biology* 25: 1149-1162.
17. Romano A., Ambrosini R., Caprioli M., **Bonisoli-Alquati A.**, Saino N. 2012. Secondary sex ratio covaries with demographic trends and ecological conditions in the barn swallow. *Evolutionary Ecology* 26: 1041-1053.
16. Saino N., Caprioli M., Romano M., Boncoraglio G., Rubolini D., Ambrosini R., **Bonisoli-Alquati A.**, Romano A. 2011. Antioxidant Defenses Predict Long-Term Survival in a Passerine Bird. *PLoS One* 6: e19593.
15. **Bonisoli Alquati A.**, Møller A.P., Rudolfsen G., Saino N., Caprioli M., Ostermiller S.**, Mousseau T.A. 2011. The effects of radiation on sperm swimming behavior depend on plasma oxidative status in the barn swallow (*Hirundo rustica*). *Comparative Biochemistry and Physiology C* 159: 105-112.
14. Møller A.P., **Bonisoli Alquati A.**, Rudolfsen, G., Mousseau, T.A. 2011. Chernobyl birds have smaller brains. *PLoS One* 6: e16862.

[covered by: BBC, Wired, TreeHugger, The Daily Mail]

13. **Bonisoli Alquati A.**, Rubolini D., Ambrosini R., Romano M., Caprioli M., Saino N. 2011. Egg testosterone affects wattle color and the covariation among phenotypic traits in the ring-necked pheasant. *Behavioral Ecology and Sociobiology* 65: 1779-1790.
12. **Bonisoli Alquati A.**, Boncoraglio G., Caprioli M., Saino N. 2011. Birth order, individual sex and sex of competitors determine the outcome of conflict among siblings over parental care. *Proceedings of the Royal Society London B: Biological Sciences* 278: 1273-1279.
11. **Bonisoli Alquati A.**, Matteo A.**, Ambrosini R., Rubolini D., Romano M., Caprioli M., Dessì-Fulgheri F, Baratti M., Saino N. 2011. Long-term effects of egg testosterone on female mate choice and male sexual behavior in the pheasant. *Hormones and Behavior* 59: 75-82.
10. **Bonisoli Alquati A.**, Mousseau T.A., Møller A.P., Caprioli M., Saino N. 2010. Increased oxidative stress in barn swallows from the Chernobyl region. *Comparative Biochemistry and Physiology A* 155: 205-210.
9. **Bonisoli Alquati A.**, Rubolini D., Romano M., Cucco M., Fasola M., Caprioli M., Saino N. 2010. Egg antimicrobials covary with laying sequence, embryo sex and predict chick phenotype in the yellow-legged gull. *Behavioral Ecology and Sociobiology* 64: 845-855.
8. **Bonisoli Alquati A.**, Voris A.*, Mousseau T.A., Møller A.P., Saino N., Wyatt M.D. 2010. DNA damage in barn swallows (*Hirundo rustica*) from the Chernobyl region detected by the Comet assay. *Comparative Biochemistry and Physiology C* 151: 271-277.
7. Saino N., Rubolini D., Leikhonen E., Sokolov, E.V., **Bonisoli Alquati A.**, Ambrosini R., Boncoraglio G., Møller A.P. 2009 Climate change effects on migration phenology may mismatch brood parasitic cuckoos and their hosts. *Biology Letters* 5: 539-541.

6. Rubolini D., Ambrosini R., Romano M., Caprioli M., Fasola, M., **Bonisoli Alquati A.**, Saino N. 2009. Within-clutch egg size asymmetry covaries with embryo sex in the yellow-legged gull *Larus michabellis*. *Behavioral Ecology and Sociobiology* 63: 1809-1819.
5. **Bonisoli Alquati A.**, Martinelli R., Rubolini D., Saino N. 2008. Sex-specific effects of albumen removal and nest environment manipulation on Barn Swallow nestlings. *Ecology* 89: 2315-2324.
4. Saino N., Bertacche V., **Bonisoli Alquati A.**, Romano M., Rubolini D. 2008. Phenotypic correlates of yolk and plasma carotenoid concentration in yellow-legged gull chicks. *Physiological and Biochemical Zoology*, 81: 211-225.
3. **Bonisoli Alquati A.**, Rubolini D., Romano M., Boncoraglio G., Fasola M., Saino N. 2007. Effects of egg albumen removal on yellow-legged gull chick phenotype. *Functional Ecology* 21: 310-316.
2. Rubolini D., Romano M., **Bonisoli Alquati A.**, Saino N. 2006. Early maternal, genetic and environmental components of antioxidant protection, morphology and immunity of yellow-legged gull (*Larus michabellis*) chicks. *Journal of Evolutionary Biology* 19: 1571-1584.
1. Romano M., Rubolini D., Martinelli R., **Bonisoli Alquati A.**, Saino N. 2005. Experimental manipulation of yolk testosterone affects digit length ratios in the ring-necked pheasant (*Phasianus colchicus*). *Hormones and Behavior* 48: 342-346.

Book Chapters

42. **Bonisoli-Alquati A.**, Rudolfson G., Møller A.P., Mousseau T.A. Birds as Bioindicators of Ionizing Radiation Impacts in Natural Environments. In *Biomarkers of Radiation In The Environment: Robust tools for risk assessment* Eds. M. Wood, C. MotherSill, G. Woloschak. Springer, Berlin.

Submitted for review:

43. Hart M.E., Perez-Umphrey A.A., Stouffer P.C., Bergeon-Burns C., **Bonisoli-Alquati A.**, Taylor S.S., Woltmann S. Nest survival of Seaside Sparrows (*Ammodramus maritima*) in the wake of the Deepwater Horizon oil spill. Submitted to *PLoS One*.
44. Formenti G., Theissinger K., Fernandes C., [...], **Bonisoli-Alquati A.**, et al. Bridging the gap between genomics and biodiversity conservation. Submitted to *Trends in Ecology and Evolution*.

Other publications:

Ripple W.J., Wolf C., Newsome T.M., Galetti M., Alamgir M., Crist E., Mahmoud M.I., Laurance W.F., 15,364 scientist signatories from 184 countries. World Scientists' Warning to Humanity: A Second Notice. *BioScience* 67: 1026–1028.

GRANTS AND AWARDS

Competitive External Funds

Tot awarded (excluding fellowships): \$96,687

- 2017** "Oil Spills as Stressors in Coastal Marshes: The Legacy and the Future (CWC)", \$32,005, Gulf of Mexico Research Initiative (GoMRI) (co-PI; PI: Nancy Rabalais, LSU)

- 2014 American Ornithologists' Union Travel Grant (\$300)
- 2013 American Ornithologists' Union Travel Grant (\$250)
- 2012 "Biodosimetry of Children Exposed to Low-level Radioactive Contamination; NIH/Columbia University, NYC, NY (co-PI; with T.A. Mousseau, PI; W. Karmaus, co-PI); \$64,132.00.
- 2010 Two-year Postdoctoral Fellowship awarded by the University of Milan, Italy (ca. € 80,000) (*declined*)
- 2006 – 2010 Three-year PhD fellowship awarded by the Italian Ministry for University and Research (MIUR) (ca. € 40,000)

Competitive Internal Funds

Tot. awarded (excluding fellowships): \$80,437

- 2021 Special Projects for Improving the Classroom Experience (SPICE) Grant, CPP (PI), \$16,323.
- 2020 "Seabirds as Sentinels of Exposure to Volatile Organic Compounds in Coastal Cities" Grant Development Proposal, CSU COAST (PI), \$20,000.
- 2019 "Microplastic Sampling, Processing and Detection Workshop" Workshop Proposal, CSU COAST (co-PI, PI: Erika Holland, CSULB), \$9,114.
- 2019 "Ionizing radiation and mutation rate: A test in barn swallows from Fukushima" CSUPERB New Investigator Program (PI), \$15,000.
- 2017 "FiBRE: Fukushima Birds Radiation Effects", Research, Scholarship & Creative Activities (RSCA) Program, Cal Poly Pomona (PI), \$5,000
- 2012 "Proposed Purchase of a SAM 940 Radiation Isotope Identifier (RIID)" ASPIRE-III program, Office of the Vice President for Research, USC (co-PI; with T.A. Mousseau, PI) \$15,050.00.
- 2011 – 2014 Faculty advisor (PI) on proposals funded by USC's Magellan Scholar Program for undergraduate research (Total: \$12,000 awarded to five undergraduate students)
- 2006 Research grant awarded by the University of Milan, Milan, Italy (€ 6,000)
- 2006 Research grant for research abroad, University of Milan, Italy (€ 15,000) (*Declined*)

TEACHING AND MENTORING EXPERIENCE

Teaching experience

- Introduction to Meta-Analysis** (graduate)
Instructor; Cal Poly Pomona (ca. 15 students) **Fall 2018, 2019, 2020**
- Ecotoxicology**
Instructor; Cal Poly Pomona (ca. 30 students) **Fall 2017, 2018, 2019, 2020, 2021; Spring 2021**
- Avian Biology (w/ lab)**
Instructor; Cal Poly Pomona (ca. 30 students) **Spring 2018, 2019, 2020**
- Foundations of Biology: Ecology, Evolution and Biodiversity**
Instructor; Cal Poly Pomona (ca. 120 students) **Spring 2019, 2021; Fall 2020, 2021**

Foundations of Biology: Reproduction and Development

Instructor; Cal Poly Pomona (ca. 90 students)

Fall 2016, Spring, Winter 2017**Oceans and Society**

Instructor; U of SC Honors College (ca. 25 students)

Fall 2012, Spring 2013**Evolutionary Biology**

Co-instructor; U of SC (ca. 10 students)

Spring 2013**Environmental Science.**

Co-instructor; U of SC (50-70 students)

Fall 2013, Spring 2014/Fall 2014

Mentoring experience

Undergraduate students:

Cal Poly Pomona: Deborah Wheeler, Alexandra Gresham, Raul Flamenco, Jenna Carpenter, Grigor Tombulyan, Bethany Aronson; Hanaa Zerroug; Yuzhong Zhang; Ava Hanson; Alec Iskenderian; Cecilia Saenz

Louisiana State University: Regan Higgins-Lang, Sarah Buckley, Shelby Fletcher

University of South Carolina: Andrew Voris (*Honors thesis*), Leila Heidari (*Science Undergraduate Research Fellowships (SURF) grant*), Humna Fayyaz (*USC Magellan Scholarship; SURF grant; Honors thesis*), Hirva Chudgar (*Independent study*); Alexandra Golden (*USC Magellan Scholarship*), Michael Owens (*USC Magellan Scholarship; SURF grant*), Kaitlyn Bretz (*USC Magellan Scholarship*), Daniel Young (*USC Magellan Scholarship*), Justin Sindoni (*SURF grant*), Irraj Iftikhar, Angela Korabik (*Independent study*)

University of Milan: Stefania Bocchi, Alessandra Tecla Gerevini, Federico Mazzoleni, Umberto Oldani, Daniel Patelli, Maria Prinzivalli, Andrea Romano, Paola Usorini

Graduate students:

Cal Poly Pomona: Yeraldi Loera (M.S. 2019), Anthony Dant (M.S. 2020), Aaron Angel (M.S. 2021), Samia Ladner (M.S. 2021), Caitlin Doherty (M.S. 2021), Alexandra Gresham (M.S. 2021), Alexandria Koedel (M.S.), Yuzhong Zhang (M.S.).

University of South Carolina: DeAnna E. Beasley (Ph.D. student; co-supervised with Tim Mousseau), Shanna Jenkinson (formerly Shanna Ostermiller; Ph.D. student; co-supervised with Tim Mousseau); Daniel Einor (Ph.D. student; co-supervised with Tim Mousseau)

University of Milan: Elisabetta Bonati (M.S. student), Damiano Cagnetti (M.S. student), Angelo Matteo (M.S. Student), Irene Sofia (M.S. student), Vincenzo Pignataro (M.S. student)

CONFERENCE PRESENTATIONS

Underlined names indicate supervised graduate or undergraduate student

RECENT ORAL PRESENTATIONS

2021 Secomandi S., Gallo G.R., Marcella Sozzoni, Ambrosini R., **Bonisoli-Alquati A**, Jarvis E., Gianfranceschi L., Formenti G.. Evolutionary insights from a barn swallow chromosome-level assembly. Biodiversity Genomics 2021 Virtual Meeting.

- 2021 Angel, A., Taylor, S., Stouffer, P.C., Jellyman, J.K., **Bonisoli-Alquati, A.** Oxidative stress in the Seaside Sparrow (*Ammospiza maritima*) following the Deepwater Horizon oil spill. SETAC North America Annual Meeting (virtual). November 14–17, 2021 (*upcoming*).
- 2021 Angel, A., Taylor, S., Stouffer, P.C., Jellyman, J.K., **Bonisoli-Alquati, A.** Oxidative stress in the Seaside Sparrow (*Ammospiza maritima*) following the Deepwater Horizon oil spill. SETAC Europe Annual Meeting (virtual). May 3-6, 2021.
- 2021 **Bonisoli-Alquati A.**, Flamenco R. Perfluorooctane sulfonate (PFOS) concentrations in birds around the world. SETAC Europe Annual Meeting (virtual). May 3–6, 2021.
- 2021 **Bonisoli-Alquati A.**, Flamenco R. Perfluorooctane sulfonate (PFOS) concentrations in birds around the world. [keynote speaker] SoCal SETAC Annual Meeting (virtual). April 26–28, 2021.
- 2020 Flamenco R., **Bonisoli-Alquati A.** Perfluorooctane sulfonate (PFOS) concentrations in birds around the world. North American SETAC Annual Meeting (SciCon2). November 15-19, 2020.
- 2020 **Bonisoli-Alquati, A.**, Bergeon Burns C., Perez-Umphrey A., Snider A.M., Taylor, S., Stouffer, P.C., Woltmann S. A Marine Oil Spill on Land: Exposure to Deepwater Horizon Oil and its Effects on Louisiana Seaside Sparrows. North American SETAC Annual Meeting (SciCon2). November 15-19, 2020.
- 2020 Angel, A., Taylor, S., Stouffer, P.C., Jellyman, J.K., **Bonisoli-Alquati, A.** Oxidative stress in the Seaside Sparrow (*Ammospiza maritima*) following the Deepwater Horizon oil spill. North American SETAC Annual Meeting (SciCon2). November 15-19, 2020.
- 2020 **Bonisoli-Alquati A.**, R. Flamenco. Perfluorooctane sulfonate (PFOS) concentrations in birds around the world. North America Ornithological Conference (NAOC) August 15–19, 2020. (Virtual)
- 2019 **Bonisoli-Alquati A.**, A.P. Møller, D.J. Tedeschi, G. Milinevsky, T.A. Mousseau. Environmental radiation levels accurately predict past radiation exposure in Chernobyl birds. SETAC North America Meeting. November 3–7, 2019. Toronto, Canada.
- 2019 Snider A., **A. Bonisoli-Alquati**, S. Woltmann, P.C. Stouffer, S. S. Taylor. Using DNA metabarcoding to determine Seaside Sparrow (*Ammospiza maritima*) diet following large-scale disturbances. American Ornithological Society Annual Meeting. August 25–28, 2019, Anchorage, AK.
- 2019 Snider A., **A. Bonisoli-Alquati**, S. Woltmann, P.C. Stouffer, S. S. Taylor. Inferring Seaside Sparrow (*Ammospiza maritima*) dietary response to large-scale disturbances through DNA metabarcoding. Coastal & Estuarine Research Federation (CERF) Meeting. November 2–7 2019, Mobile, AL.
- 2019 Snider A., **A. Bonisoli-Alquati**, S. Woltmann, P.C. Stouffer, S. S. Taylor. Diet analysis of the Seaside Sparrow (*Ammospiza maritima*) using DNA barcoding. Gulf of Mexico Oil Spill & Ecosystem Science Conference 2019. February 5–8, 2019, New Orleans, LA.
- 2018 Formenti G., M. Chiara, L. Poveda, **A. Bonisoli-Alquati**, L. Gianfranceschi, D. S. Horner, N. Saino. SMRT long reads and OLS optical maps generate high-quality assemblies and demonstrate to be valuable resources for genomic studies: The Case of the European Barn Swallow. PacBio User Group Meeting, November 15–16, 2018. Lisbon, Portugal.
- 2018 **Bonisoli-Alquati A.** The potential and challenges of photography in science communication. SETAC World Meeting, November 4–8, 2018. Sacramento, CA.
- 2018 Snider A., **Bonisoli-Alquati A.**, S. Woltmann, P.C. Stouffer, S. S. Taylor. Genetic Assessment of the Long-Term Diet of Seaside Sparrows (*Ammodramus maritimus*) in Response to Oil and Altered

- Prey Communities. International Ornithological Congress, August 20–26, 2018. Vancouver, Canada.
- 2018** **Bonisoli-Alquati A.**, A.P. Møller, T. Mappes, G. Milinevsky, T.A. Mousseau. Interspecific differences in resistance to oxidative damage in Chernobyl birds depend on plumage coloration and intensity of sexual selection. International Ornithological Congress (IOC), August 20–26, 2018. Vancouver, Canada.
- 2018** Formenti G., M. Chiara, L. Poveda, **A. Bonisoli-Alquati**, L. Gianfranceschi, D. S. Horner, N. M. F. Saino. A novel Barn swallow reference genome assembly based on SMRT long reads and optical mapping. SMRT Leiden Conference, June 12–14, 2018. Leiden, The Netherlands.
- 2018** **Bonisoli-Alquati A.**, W. Xu, P. C. Stouffer, S. S. Taylor. Transcriptome analysis indicates broad response in Seaside Sparrows exposed to Deepwater Horizon oil. Southern California Academy of Sciences Meeting, May 4, 2018, Cal Poly Pomona, Pomona, CA.
- 2018** Snider A., **A. Bonisoli-Alquati**, S. Woltmann, P.C. Stouffer, S. S. Taylor. Six Years After Deepwater Horizon: Diet Analysis of the Seaside Sparrow (*Ammospiza maritima*) Using DNA Barcoding. Gulf of Mexico Oil Spill & Ecosystem Science Conference 2018. New Orleans, LA, 6-9 February.
- 2017** **Bonisoli-Alquati A.**, C. Bergeon Burns, C. Eagles-Smith, A. Jackson, P. Stouffer, S. S. Taylor, S. Woltmann. Mercury concentrations in Louisiana marsh birds and small mammals on opposite sides of the Mississippi River plume. SETAC World Meeting, November 12-16, 2017. Minneapolis, MN.
- 2017** **Bonisoli-Alquati A.** The use of photography in science communication: Its potential and its challenges. SETAC Europe 27th Annual Meeting, 7-11 May 2017. Brussels, Belgium.
- 2017** Stouffer P.C., S.S. Taylor, S. Woltmann, C. Bergeon Burns, **A. Bonisoli-Alquati**, A. Perez-Umphrey, M. Hart. Reconciling the disconnect between individual-level and population-level responses to contamination in Seaside Sparrows. Gulf of Mexico Oil spill and Ecosystem Science Conference, February 6-9, 2016. New Orleans, LA.
- 2017** **Bonisoli-Alquati A.**, Stouffer P.C., Bergeon Burns C., Woltmann S., Xu W., Taylor S.S. The transcriptomic response to oil contamination in Louisiana Seaside Sparrows. Gulf of Mexico Oil spill and Ecosystem Science Conference, February 6-9, 2016. New Orleans, LA.
- 2016** **Bonisoli-Alquati A.**, Stouffer P.C., Bergeon Burns C., Woltmann S., Xu W., Taylor S.S. Transcriptomic response to oil contamination in Louisiana Seaside Sparrows. North American Ornithological Conference (NAOC), August 16-20, 2016. Washington, DC.
- 2016** **Bonisoli-Alquati A.**, Stouffer P.C., Taylor S.S. The ecological effects of the Deepwater Horizon oil spill: A meta-analysis. Gulf of Mexico Oil spill and Ecosystem Science Conference, February 1-4, 2016. Tampa, FL.

INVITED TALKS AND SEMINARS

- 2021** LOS ALAMOS NATIONAL LABORATORY [VIRTUAL].
- 2021** POMONA VALLEY AUDUBON SOCIETY [VIRTUAL]. The Lives of Birds in a Polluted World.
- 2020** DEPARTMENT OF BIOLOGICAL SCIENCES, UNIVERSITY OF TENNESSEE. CHATTANOOGA, TN.
- 2019** DEPARTMENT OF BIOLOGICAL SCIENCES, CAL POLY SAN LUIS OBISPO. SAN LUIS OBISPO, CA.
- 2018** DEPARTMENT OF BIOLOGICAL SCIENCES, OCCIDENTAL COLLEGE. LOS ANGELES, CA.
- 2018** DEPARTMENT OF BIOLOGICAL SCIENCES, CALIFORNIA STATE UNIVERSITY, SAN BERNARDINO.
- 2017** NATO-sponsored workshop: Biomarkers of Radiation in The Environment (BRITE). Yerevan, Armenia.

- 2017** DEPARTMENT OF BIOLOGICAL SCIENCES, CLEMSON UNIVERSITY. CLEMSON, SC.
2017 DEPARTMENT OF BIOLOGICAL SCIENCES, LOMA LINDA UNIVERSITY. LOMA LINDA, CA.
2016 DEPARTMENT OF BIOLOGICAL SCIENCES, CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA. Chernobyl, Fukushima, and the Deepwater Horizon oil spill: Ecological Lessons from Environmental Disasters.
2016 LOUISIANA STATE UNIVERSITY.
 Oxidative stress and life history: Lessons from the Chernobyl nuclear disaster.
2015 SCHOOL OF RENEWABLE NATURAL RESOURCES, LOUISIANA STATE UNIVERSITY AGCENTER.
 Chernobyl and Fukushima: Ecological and Evolutionary Lessons from Nuclear Disasters.

 WORKSHOPS

- 2017** **Environmental Genomics Course**
 8—15 July, 2017, Mount Desert Island Biological Laboratory, Salisbury, ME
2018 **Workshop on de Novo Transcriptome Assembly**
 30 April—1 May 2018, National Center for Genomic Analyses and Synthesis (NCGAS)
 Indiana University, Bloomington, IN

 SERVICE

- 2021** **Vice President SoCal SETAC** (Regional Chapter of the Society)
2020 **Board Member Wildlife Ecotoxicology Interest Group SETAC**
2020 **Board Member SoCal SETAC** (Regional Chapter of the Society)
2014 – 2015 **President of the Postdoctoral Association of University of South Carolina**
2009 – current **Reviewer for:**
African Entomology, African Journal of Ecology, The American Naturalist, Animal Production Science, Anthropocene, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Journal of the Linnean Society, Chemosphere, Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology, Conservation Physiology, Current Zoology, Ecological Indicators, Ecology and Evolution, Ecotoxicology, Ecotoxicology and Environmental Safety, Environmental Pollution, Environmental Science and Pollution Research, Environmental Toxicology and Chemistry, Evolution Letters, Evolutionary Applications, Frontiers in Ecology and Evolution, Heredity, International Journal of Molecular Sciences, International Journal of Radiation Biology, Italian Journal of Zoology, Naturwissenschaften, Nutrients, Oecologia, Physiological and Biochemical Zoology, PLoS One, Royal Society Open Science, Science of the Total Environment, Scientific Reports, Symmetry, Water
- 2017 – current** **Reviewer for grant agencies:** *National Oceanic and Atmospheric Administration NOAA (USA); Italian Ministry of Education, University and Research (Italy); National Center of Science and Technology Evaluation (Kazakhstan).*

PROFESSIONAL AFFILIATIONS

Society of Environmental Toxicology and Chemistry (SETAC)	2016 - present
American Ornithological Society	2013 – present
National Center for Radioecology (NCoRE; Founding member)	2010 – present
Ecological Society of America (ESA)	2007 – 2010

LANGUAGES

Italian: mother tongue

English: fluent (reading, writing, speaking)

Spanish: proficient (speaking, reading), basic (writing)

French: basic (reading, speaking)