

00:43:09 Karina Townsend: Hi from East London.  
00:43:41 Mona Doss-Spencer (Wildlife Acoustics): Welcome from Boston!  
00:43:46 Dean Waters: Good evening from York, North Yorkshire, UK  
00:43:51 fran tatterall: Hi from the Cotswolds in the UK  
00:43:59 Chris Pierpoint: Hello - Chris here in Wales  
00:44:07 Tara Beckman: Hello from Southern California!

00:44:08 judit szabo: hi from brazil  
00:44:09 Charlotte Dunn: hello from The Bahamas  
00:44:10 Samantha Spears: Hi from North Devon, UK  
00:44:10 Sue Morgan: Hi from Suffolk, England  
00:44:10 Hairul Masrini Muhamad: Its Hairul from Malaysia  
00:44:13 R Udiger Ortiz: Hello from Madrid, Spain!  
00:44:13 Andrew Fairbairn: Hello from Germany  
00:44:15 Frank Dziock: Hi from Dresden, Eastern Germany  
00:44:16 Jernej Polajnar: Vrhnika, Slovenia, checking in  
00:44:18 Rob Garbutt: Hi from Lismore, Australia  
00:44:21 Carlos Iglesias-Merchan: Good night from Spain!  
00:44:23 Carlos Araújo: Hi from Brazil  
00:44:23 Mike Kearsley: Greetings from Grand Canyon!  
00:44:23 Robert Manzano: Evening from Catalunya, Spain!!  
00:44:25 Mohammed Ismail Mohamed Rafi: Hello! Mohammed from Oxford  
00:44:26 Dr. Bryan Pijanowski: Hello from sunny Indiana! :)  
00:44:28 Jordan Howard: Hi from Ontario, Canada  
00:44:32 Jeff Hines: Hi from Canada!  
00:44:33 Erick Ocaña: Hi, Erick from Veracruz, Mexico  
00:44:33 joni palmer: Hello from Albuquerque!  
00:44:36 Ian Agranat: Hint: select "all panelists and attendees " to share  
with everyone - rather than just the speakers...  
00:44:37 Anthony Aboumrad: Hello from Santa Rosa, California!  
00:44:39 CINDY STAIKER: Hi from Nova Scotia, Canada  
00:44:39 Debbie Leick: Hello from snowy Missoula Montana!  
00:44:40 Marc Green: Good Evening from Manchester England :)  
00:44:40 Kelly\_Kahukiwa: Kia ora from Aotearoa (New Zealand)  
00:44:41 Bryan Crunden: Hello from Colchester, UK  
00:44:47 Jeff Matheson: Hello from British Columbia Canada  
00:44:50 Albert Aguiar: Hello, Albert from Brazil =)  
00:44:52 dhanusha kawalkar: Hello everyone! Dhanusha from India :)  
00:44:52 Brian Hendrix: Hello from Nashville, Tennessee!  
00:44:56 Alex Milne: Greetings from Massachusetts  
00:44:57 Megan Sullivan: Good afternoon from Connecticut, USA  
00:44:58 Edward Harland: Hi, Ed from Dorset, UK  
00:44:58 Hugo Belly: Hello from Toulouse, France !  
00:44:59 Supun Galappaththi: Hi from Sri Lanka!  
00:45:01 Ron Chen: Hi from Israel!  
00:45:01 Renata Sousa-Lima: Good afternoon  
00:45:02 Cristian Pérez-Granados: Hi Albert, nice to see you ;)  
00:45:04 Alison Styring: Hi from Olympia Washington USA!  
00:45:08 Renata Sousa-Lima: from Brazil  
00:45:11 Marco Ortiz: Hello from Mexico!!!

00:45:12 Steve Moon: Hello from Iowa  
00:45:13 Christine Gabriele: Hello from Glacier Bay National Park, Alaska  
00:45:15 Luke Strugnell: Hi from a warm evening in South Africa  
00:45:19 Carlos Abrahams: Hi from Derbyshire in the UK  
00:45:22 David Cook: Greetings from Tallahassee, FL  
00:45:22 Craig Hood: Hello from New Orleans ☹☹  
00:45:23 Caroline Lotter: Hello from Pretoria, South Africa.  
00:45:23 Jill Tengeres: Hello from Oregon!  
00:45:26 Steve Horton: Hi from the UK  
00:45:27 John Brazner: from lovely Black Rock Nova Scotia  
00:45:29 Matthew Hane: Hello from sunny Eugene, OR  
00:45:29 Laura S: Canada!  
00:45:30 Rony Garcia Anleu: HI from Guatemala  
00:45:32 Michael Lynch: Hi from Maryland  
00:45:33 Ivan Samayoa: Hello from El Salvador  
00:45:33 Harold Mills: Hi from Ithaca, NY!  
00:45:33 Haley Price: Hello from Pittsburg, Kansas, U.S.!  
00:45:37 Mark Heerden: Greetings from Cape Town, South Africa  
00:45:37 Albert Aguiar: Good to see you, Cristian!  
00:45:42 Heidi Neilson: Hi from NYC!  
00:45:45 Claudius Kerth: Hi from Leipzig, Germany  
00:45:47 Samuel Ross: Dublin Ireland, checking in!  
00:45:47 Sue Gould: Hi from Sue Gould in New South Wales, Australia  
00:45:48 Omar Monzon: Hi from Puerto Rico in the Caribbean  
00:45:49 Ivan Campos: Hello from Brazil  
00:45:50 Matthew Mitchell: Hi from Vancouver, Canada!  
00:45:51 Dr. Bryan Pijanowski: Mars? What does it sound like there?  
00:45:53 Jeff Wells: Hi all from Maine, USA  
00:45:56 Rose Keller: Hei from Lillehammer Norway! And formally of Denali  
Alaska. Hey GBNP!  
00:45:57 Anne Clark: Hi from upstate NY  
00:45:58 Viral Joshi: Hi every one Viral Joshi from IISER Tirupati India  
00:46:01 Stephen Docker: Hi from Derbyshire UK  
00:46:04 Leigh Richards: Greetings from Durban, South Africa  
00:46:08 Leah Williams: Hi from Chester, UK  
00:46:11 Ellen Murphy: Hello from the Grand Canyon NP!  
00:46:14 Shannon Mendia: Hello from San Diego, California, USA  
00:46:18 Victor Matasov: Greetings from Moscow, Russia.  
00:46:34 SUYASH SAWANT: Hi, Suyash from India  
00:46:37 Tharaka's Galaxy M11: Hello from Sri Lanka  
00:46:40 Fabiano Melo: Hi people, Fabiano Melo, from Brazil!  
00:46:42 Madrone Ruggiero: Hello from Elkton, Oregon, USA.  
00:46:43 Ines Moran: Hi everyone, Ines from Eugene, US  
00:46:54 Tessa Rhinehart: Hello from the Kitzes Lab in Pittsburgh,  
Pennsylvania  
00:46:57 Richard Stein: Asteroid c-7869  
00:47:01 Josep Vidal O+: Hi from Catalunya  
00:47:12 Leonardo Trevelin: Hello from Belem, Brazil!  
00:47:20 Liliana Ferreira: Hello, I'm Liliana from Portugal.  
00:47:21 Jessup Weichelt: Hello from Wisconsin, USA

00:47:21 Francisco Fonturbel: Hello everyone! Greetings from Chile  
00:47:25 David Hill: Hello from Vancouver Island, Canada  
00:47:33 Garrett Savory: Good morning from Fairbanks, AK  
00:47:35 Andrea de Moura Milanelli: Hi from Brazil!  
00:47:36 Maria Armour: Hello from Bridgewater State University in  
Bridgewater, MA, USA  
00:47:41 Paul Howden-Leach: Hello from the Peak District National Park  
UK  
00:47:41 Hanika Cook: Hi from Davis, California  
  
00:47:44 Paul Meulenbroek: Servus from Vienna, Austria!  
00:47:45 Monica Retamosa: Hi from Costa Rica  
00:47:45 Kimberly Fake: Hi All, from Chicago Illinois USA  
00:47:46 Jenny Nehring: Hello from Monte Vista Colorado  
00:47:48 Rebecca Lewis: Hi from the UK!  
00:47:52 Muhammad Muhajir Hasibuan: Hello nice to meet you all, I'm from  
Indonesia  
00:47:53 Jana Vokurkova: Greetings from Prague, Czech Republic!  
00:47:57 Patricia Serafini: Hi from Florianópolis, Brazil!  
00:47:58 Tainã Lucas ANDREANI: Hi from Goiás, Brazil  
00:48:10 Lars Korslund: Good evening everyone from rainy Norway!  
00:48:10 Vanesa Serafini: Hi from Argentina!  
00:48:11 gesa reiss: Hi from Yorkshire, UK  
00:48:16 Juraj Svajda: Greetings from Slovakia!  
00:48:18 Tamires Fernandes: Hi from Brazil!  
00:48:24 Zephyr Gold: Greetings from San Diego!  
00:48:28 Tara Beckman: Any fellow UC Davis student/faculty/alumnis?  
00:48:30 martin ruane: hello from Naval Base Ventura County, California  
00:48:34 Peter Brooks: Hello from Peter in Sheffield UK  
00:48:38 Hanika Cook: Go Aggies!  
00:48:47 Fabiano Melo: Very excited!!!!  
00:48:54 Tara Beckman: yess! go Ag!  
00:48:58 Jessica McCordic: Hello from Bridgewater, Massachusetts!  
00:49:06 Jenni Morgan: Hello from Gloucestershire, UK!  
00:49:24 Francinie Guido: Hello from Costa Rica!  
00:49:35 sarah comer: Hi, from Albany, Western Australia :-)  
00:49:35 Niamh Carmichael: Hi from Belfast! :)  
00:49:41 Taffeta Elliott: Hi from New Mexico, in the Rio Grande valley  
00:49:53 Eric Schrder: West Virginia, USA in the house  
00:50:01 Léa Bouffaut: Hi from Trondheim, Norway!  
00:50:15 Gilberto Chavez-Leon: Hi from Mexico City  
00:50:18 Renata Platenberg: Hello from the Virgin Islands!  
00:50:32 Mark Carter: G'day from Alice Springs!  
00:50:34 Gabriel Cahalan: Hi from Maryland  
00:50:48 Karina Townsend: Hi from Maryland East London!  
00:51:05 Robyn Shea: Hello from Santa Rosa Island, California.  
00:51:51 Penelope Fialas: Hi from Bristol, UK  
00:52:16 Renata Sousa-Lima: nice  
00:52:22 Ines Moran: Nice!  
00:52:32 KAVITA VERMA: Hello from New Delhi, India.

00:52:43 Rogério Grassetto Teixeira da Cunha: Hi from Brazil

00:52:50 Renata Sousa-Lima: ei Rogerio!

00:52:53 KAVITA VERMA: It's 12:30 a.m. here!!

00:53:01 Enis Berk Çoban: Hi from Istanbul, Turkey

00:53:05 Fabiano Melo: Super Rogério Grassetto is here

00:53:13 Richard Stein: you mean 12:10?

00:53:15 Rogério Grassetto Teixeira da Cunha: Ei Renata, bem empolgado aqui

00:53:31 Sue Morgan: Sorry can't see the poll?

00:53:32 Dan Dugan: Greetings from the Nature Sounds Society headquarters in San Francisco. Dan Dugan here.

00:53:49 Ragil Yoga Mandhala Wicaksana: Hello from Yogyakarta, Indonesia

00:54:13 Renata Sousa-Lima: we cannot see the polls

00:54:14 Rogério Grassetto Teixeira da Cunha: Hey Bião!

00:54:18 Sue Morgan: How to access the poll please?

00:55:05 KAVITA VERMA: it'll come on your screen.

00:55:06 Hanika Cook: The poll should pop up in a new window over the video

00:55:30 L. Andrusiak: no poll window is opening

00:55:34 Sue Morgan: Hi sorry we couldnt see poll

00:55:42 Katie Teets: I'm viewing in browser, maybe that's why

00:55:55 Leonardo Trevelin: Couldn't see it

00:55:58 Karina Townsend: I'm viewing via Zoom app and could see the polls.

00:56:06 Fabiano Melo: Yeap

00:56:13 Ivan Samayoa: Yes

00:56:44 Tainã Lucas ANDREANI: coudn't see it too

01:11:09 Renata Sousa-Lima: this is brilliant

01:12:47 Karina Townsend: Agreed!

01:13:33 Jana Vokurkova: so beautiful diversity

01:13:54 Roberto Vargas Masís: Currently I'm using acoustic indexes to characterize of soundscape associated to the bird community as a proposal for the establishment of an Interurban Biological Corridor in Costa Rica. If some of you can collaborate with this form will be very useful for us to take in count your experience and opinion [https://bit.ly/acousticindexes\\_cbi\\_english](https://bit.ly/acousticindexes_cbi_english)

Thanks!

01:16:57 Karina Townsend: Thank you this is great.

01:17:21 Craig Hood: Ribbon visualizations are incredible!

01:21:14 Hairul Masrini Muhamad: Did anyone catches the paper mentioned just now?

01:21:25 Andrew Fairbairn: anyone have a link to that paper?

01:22:32 Simon Butler:  
[https://www.sciencedirect.com/science/article/pii/S1470160X19308398?casa\\_token=H-SuWjvGzjkAAAAA:vEqmIqwTI-l7NOJxc1-j-SDEK0i9r1cWxbzX9Y4GrNm5QsFSx5jaTCFp2sLUTbDgUwh\\_Ffb1G4w](https://www.sciencedirect.com/science/article/pii/S1470160X19308398?casa_token=H-SuWjvGzjkAAAAA:vEqmIqwTI-l7NOJxc1-j-SDEK0i9r1cWxbzX9Y4GrNm5QsFSx5jaTCFp2sLUTbDgUwh_Ffb1G4w)

01:22:49 Thiago Bicudo:  
<https://www.sciencedirect.com/science/article/pii/S1877050914002403>

01:22:50 Andrew Fairbairn: Thanks!

01:23:07 Matheus Mancini: Thanks Simon!

01:23:19 Hairul Masrini Muhamad: Thanks!

01:23:25 Viral Joshi: thanks Simon thats great help

01:23:29 Rose Keller: Francomano, D., Gottesman, B. L., & Pijanowski, B. C. (2020). Biogeographical and analytical implications of temporal variability in geographically diverse soundscapes. *Ecological Indicators*, 112, 105845.

01:25:59 Sunil Kumar: Hi, I have gone through Dr. pijanowski, Almo Farina and Dr Jerome Sueur's papers but could not grasp how to calculate ACI and other indices. Can anyone give me some pointers? PS- I am not familiar with R.

01:26:23 Dr. Amandine Gasc : Do you know python?

01:26:48 Jana Vokurkova: Nadia Pieretti papers

01:27:08 Sunil Kumar: Sorry I don't! More into biology than computers

01:27:26 Carlos Abrahams: You can use Kaleidoscope Pro

01:27:39 Sunil Kumar: Read Pieretti as well but all in vain

01:27:52 Dean Waters: Any R packages for doing this?

01:28:12 Carlos Abrahams: seewave the main one

01:28:24 Fabiano Melo: I have to go, folks... Have a nice meeting

01:29:26 Alison Styring: I use "Sound Analysis with R" by Sueur and it's useful.

01:29:42 Sunil Kumar: @Dr. Gasc...looking forward to that

01:30:26 Sue Morgan: Thank you

01:30:27 Penelope Fialas: Thank you very much!

01:30:30 Renata Sousa-Lima: Thank you so much Dr Towsey!

01:30:36 Andrew Fairbairn: Fantastic. Thank you!

01:30:37 Sunil Kumar: Thanks Dr. Gasc

01:30:38 Viral Joshi: Thanks you

01:30:44 Lars Korslund: Great! Thank you so much!

01:30:45 Sarah Obaid: Thank you, that was great

01:30:49 Christine Gabriele: Thank you! Those ribbon plots, wow!

01:30:51 Karina Townsend: Thank you Dr Towsey. Really thought provoking.

01:30:53 Liliana Ferreira: Thank you so much, its amazing and beautiful, and so useful.

01:31:11 Ines Moran: Thanks for such a wonderful talk!

01:31:14 Diego Llusia: In [www.rug.mnhn.fr/seewave](http://www.rug.mnhn.fr/seewave) you can find a nice documentation about the seewave R package

01:31:15 Matheus Mancini: Thank you for your knowledge Dr. Towsey!

01:31:24 Laura S: Alison I think you mentioned this book thank you!  
<https://www.springer.com/gp/book/9783319776453>

01:31:30 Carlos Araújo: Time is short! :)

01:31:41 William Carvalho: Thank you! Amazing talk! :)

01:32:13 Alison Styring: @Laura, thank you for the link. Yes that's it!

01:32:29 Diego Llusia: Also check "soundecology" R package

01:34:13 Sunil Kumar: Thanks Diego, Laura and others!

01:35:01 Megan Sullivan: Who was the name he just mentioned that combined camera traps + acoustic monitoring?

01:35:17 Laura S: If you are at a University your library should have a site license to that book so you can download it as a pdf.

01:35:35 Viral Joshi: liz I think

01:35:47 Thiago Bicudo: Pairing camera traps and acoustic recorders to monitor the ecological impact of human disturbance

01:36:07 Laura S: Thiago how are you doing that?  
01:36:45 Omar Monzon:  
<https://www.sciencedirect.com/science/article/pii/S2351989418303573>  
01:36:46 Victor Matasov: Thanks! Very impressive!  
01:36:55 Megan Sullivan: Thank you!!  
01:38:21 A. Gasco: @Thiago Bicudo which human sounds would you be interested in detecting?  
01:41:34 Yoba Alenga: @Thiago can you share your e-mail adress ? There are some questions you may help me  
01:42:14 Thiago Bicudo: @A.Gasco, I was citing the paper using cameras trap and acoustic recorders  
01:43:01 A. Gasco: cool. thanks.  
01:48:57 Tara Beckman: I've got to head to \*virtual\* class now, but it was wonderful listening in!! Bye now, and thank you!!  
01:52:14 Anne Clark: Concept of "umwelt" as proposed by von Uexkull early last century is perhaps the best umbrella term for the species-specific or culture specific sensory-bounded world.  
01:53:08 Renata Sousa-Lima: good point Anne  
01:54:05 Ian Agranat: You should be able to grab with your mouse the space between the screen and speaker and change size to make one bigger or smalelr  
01:54:48 Laura S: Ah like morphospecies but for sound!  
01:54:53 Laura S: Super cool :)  
01:55:33 Gabriel Cahalan: Is anyone aware of a tool to make the long visualizations-the false color spectrograms from indices? R package or?  
01:55:59 Matthew Casali: ^I'm also interested in that  
01:56:12 Megan Perra: looked like it was his own software when he first published, not sure if it's changed  
01:56:19 Helen Whitehead: im interested in that too ^  
01:56:34 Kathy Hodder: @Anne Clark - that is a useful word!  
01:56:46 Carlos Abrahams: I think it's "Ecoacoustics Audio Analysis Software v18.03.0.41" download from Zenodo  
01:57:08 Jernej Polajnar: Umwelt actually refers to the animal's complete sensory representation of its environment, not just sound  
01:57:16 Jernej Polajnar: (just to be precise)  
01:57:32 Karthik Ashok: Try this -  
<https://github.com/QtEcoacoustics/audio-analysis>  
01:58:36 Carlos Abrahams: Or here:  
<https://zenodo.org/record/1188744#.X5Hn5JNKh25>  
02:01:03 Anne Clark: @jernej Planjnar Completely agree. Trying to indicate that with term "sensory"! As a term, it fits well with the "scape" notion.  
02:09:59 Dr. Amandine Gasc : put the sound up guys !  
02:10:03 Kelly\_Kahukiwa: hahaha!!  
02:12:02 Richard Stein: we are awake  
02:12:05 Jana Vokurkova: :)  
02:12:14 joni palmer: YES INDEED!!  
02:12:22 Kelly\_Kahukiwa: he blew his speaker up  
02:14:47 Sue Morgan: Thank you so much, i have to go but this has been amazing!  
02:15:22 Renata Sousa-Lima: we have done some validation on indices aplued to tropical ecosystems

02:15:56 Helen Whitehead: I always inspect files to see what values I get for example if I am looking for birds then I don't want files with high levels of wind/rain so I remove them from the study. ACI is sensitive to geophonic noise

02:16:01 Elizabeth Znidarsic: I agree. Ecologists need to understand the environment they are monitoring from experience in the field. Then, their knowledge can fully interpret the acoustic recordings

02:16:17 Neysa Frechette: Least bittern paper mentioned earlier:  
<https://www.sciencedirect.com/science/article/pii/S1574954119303255>

02:16:47 Renata Sousa-Lima: eg: Peer-ReviewedOpen AccessJEA 2018, 2(1), 2; doi: 10.22261/jea.pvh6yz

02:17:50 Robert Manzano: As I undertand different taxa (birds, frogs, insects,...) are identified just by frequency bands? saying insects will be everything between e.g. 8 and 20kHz, birds will be everything between 1 and 8kHz and so on?

02:19:18 Renata Sousa-Lima: @Robert Manzano I wish it was that simple, but it is not.

02:19:21 Laura S: Suggestions for bat measurements? How to measure in relation to other audio and biodiversity.

02:19:49 Sunil Kumar: @Robert Manzano Some katydids may reach 150kHz... so it gets much more complex than that

02:19:51 Brian Hendrix: A lot of bird sounds and insect sounds occupy the same frequency space.

02:20:09 Helen Whitehead: I have always found that using filters on acoustic recordings will always result in loss of taxa vocalisations for example the Nightjar vocalises in very low frequencies so if you only look between 1 and 8kHz you may miss species

02:20:14 Renata Sousa-Lima: if we jhave big dat using the current sampling frequ imagine going up to ultrasounds!

02:20:42 Robert Manzano: that is why I was asking as many insects overlap with birds, mammals and bats. I understand then classifiers are run first before getting into ACI and more

02:21:07 Orlando Acevedo-Charry: Agree @Helen Whitehead. Other examples from the Neotropics include tinamous, curassows and some fruit crows or big cotingas

02:21:12 Anthony Aboumrad: This is an open-source project tailored to the analysis of rat vocalizations, including ultrasonic:  
<https://github.com/DrCoffey/DeepSqueak>

02:21:13 Helen Whitehead: i don't run classifiers first before running indices

02:21:16 Renata Sousa-Lima: I think that calls to another way to classify organisms within soundscapes

02:21:36 Renata Sousa-Lima: Christopher Clark at Cornell University has some very good ideas about that

02:22:20 Sunil Kumar: There are overlapping in frequencies, intensity measurements are dependent on distance from the microphones, acoustic mimicry in some animals all make the situation more difficult

02:22:33 Renata Sousa-Lima: yes, indeed

02:23:58 Helen Whitehead: yes we have a lot of mimicry but i find with any of these methods they come with limitations, I try to work with the best possible solution and explain limitatins in my work

02:24:06 Robert Manzano: @Helen Whitehead but in order to get to some indexes

(e.g. richness) you first need to know what taxa is present, right?

02:24:37 Renata Sousa-Lima: some taxa do not follow the rationale built into the indices

02:25:34 Orlando Acevedo-Charry: Agree @Renata Sousa

02:25:50 Renata Sousa-Lima: so many snatural solutions to animal communication that have evolved, that is why validation is important. I think the indices are very useful to call our attention to patterns and dynamics

02:26:05 Renata Sousa-Lima: general patterns

02:26:51 Orlando Acevedo-Charry: but a post validation of the sound source is always a great way to try to get the mechanism behind the pattern ;)

02:27:00 Renata Sousa-Lima: true

02:27:07 Abram Fleishman: Abram Fleishman (You) 12:06 PM

I know that `Kaleidoscope` now computes soundscape indices. And I have used `seewave` and `soundecology` R packages, and QUT (Towsey) `AnalysisPrograms.exe` to calculate indices. What other software/packages are out there?

02:27:08 Renata Sousa-Lima: see our paper! ;)

02:27:09 Helen Whitehead: @robert manzano I look at the soundscape as a whole reather that specifics so I remove files environmental noise and files with extreme insect values (ACI and BIO give a good indication of these extreme values). As I focus on only birds I am then left with files with just birds and other noise. I then look at the ACI, BIO, ADI, AEI indexes to see which sites have more bird presence from the indices as I know I have removed the files that would bias the index

02:27:14 William Carvalho: @Renata Souza-Lima, I'm looking for a doctoral candidate to work with sondscape ecology in state of Amapá. I have data for land use change (Amazonian savannas change in soybean and eucalyptus plantations). Do you know any potential candidates? :)

02:28:03 Renata Sousa-Lima: send me the call by email xxxxxxxxxxxxxxx and I will post among my students

02:28:33 Yvette Abril Del AngelFlores: Someone involved in sustainability science and ecoacoustics?

02:29:01 Jana Vokurkova: Someone involved in sustainability science and ecoacoustics? - not yet but very interested

02:29:16 William Carvalho: Thank you, Renata :)

02:29:25 Alison Styring: someone could use a multivariate approach to assign meaningful bands to their system. take a sample of sound, identify the different taxa, then use PCA or another ordination method to plot the taxa and correlate with frequencies. you could then use that information to assign bands that encompass the types of organisms you want to be reflected in an index. just a thought.

02:29:39 Laura S: We are in a way (sustainability science and ecoacoustics)

02:30:13 Renata Sousa-Lima: sustainability science and ecoacoustics - will get to that eventually

02:30:42 Jana Vokurkova: We are in a way (sustainability science and ecoacoustics) - please could you share some link, cannot see the full name here in chat, thanks

02:30:49 Ivan Campos: We have used acoustic indices to detect the main



differences between soundscapes from a National Park and the surroundings in Brazil. Indices measurements were split into "acoustic regions" to facilitate analysis and ecological interpretation of results. Dr. Towsey is one of the authors. In case you wanna take a look at:

[https://authors.elsevier.com/a/1bqpE\\_,3Lxxn4Ki](https://authors.elsevier.com/a/1bqpE_,3Lxxn4Ki)

02:30:53 Carlos Araújo: Amazing talk, thanks!

02:30:56 Samantha Ordóñez Flores: @William Carvalho, @Renata Souza-Lima hi! I am a Masters students looking for the possibility of an internship in bioacoustics! Do you know of any? I really appreciate It

02:31:08 Orlando Acevedo-Charry: @Alison Styring it reminds me the Furumo & Aide paper in Landscape Ecology  
[https://www.researchgate.net/publication/332256084\\_Using\\_soundscapes\\_to\\_assess\\_biodiversity\\_in\\_Neotropical\\_oil\\_palm\\_landscapes](https://www.researchgate.net/publication/332256084_Using_soundscapes_to_assess_biodiversity_in_Neotropical_oil_palm_landscapes)

02:31:09 Laura S: Jana if you send an email can contact you

02:31:12 Penelope Fialas: Thank you so much!

02:31:24 Ludmilla Aguiar: Thanks! Great talking.

02:31:29 Robert Manzano: @Helena Whitehead How do you discern between birds and insects? I've come across many recordings (in the nocmig topic) with lots of orthoptera insects constantly singing within the same frequency band as birds. If I look a the soundscape as a whole I would have unreal results about the bird community

02:31:34 Matthew Casali: Thank you!

02:32:01 William Carvalho: Thank you, Bryan! Great!

02:32:13 Matheus Mancini: Thank you very much Dr. Pijanowski!

02:32:22 Alison Styring: @Orlando, Thank you!

02:32:41 Jana Vokurkova: Laura, I can see just Laura S here in chat ... no more info... please could you share link to the lab or so? thanks

02:32:51 Laura S: if you send email can contact

02:33:10 Helen Whitehead: @Roberto Manzano I find it easy to discern between the two, I have never ran into any problems, i mostly have cicada and orthoptera . I remove the unwanted sounds to not create unreal results about the bird community

02:33:28 Robert Manzano: I know there are many packages and software for classifiers as well as research groups currently working on this, but I raised the question in case there is a different approach to the issue from the soundscape ecology perspective :)

02:33:58 Helen Whitehead: FOr example I had a high value for ACI and when I looked it was insects occupying one frequency band, if i was to include this in my study it is not a true represenatin

02:34:46 Helen Whitehead: of the bird community in the soundscape

02:35:37 Robert Manzano: ok so you check visually on the spectrogram after running the ACI to make sure the index is reflecting true bird data and not unwanted (insects) data

02:37:03 Helen Whitehead: I found I had a lot of outliers and the outliers were mainly insects

02:37:57 Helen Whitehead: @Dr Michael Towsey I don't think I have come across the spectral version, is this the ACI that is calculated in Kaleidoscope?

02:38:30 Ellen Murphy: Thank you! gotta to go to class

02:38:46 Ian Agranat: ACI in Kaleidoscope is near identical to the Seawave

R implementation by Jerome Sueur - slightly different but scalable to Towsey

02:39:01 David Hill: Links to sound libraries?

02:39:15 Francisco Rivas: xenp-canto.org

02:39:18 Sunil Kumar: can we calculate ACI for ultrasonic organisms in Kaleidoscope?

02:39:24 Francisco Rivas: xeno-canto.org

02:39:35 Francisco Rivas: macaulaylibrary.org

02:40:25 David Hill: @Francisco Rivas Thank you!

02:40:41 Ivan Campos: I need to leave. Thanks for the interesting talks!

02:40:47 Juan López: Anyone working with substrate-borne vibrations? Biotremology?

02:41:12 Sunil Kumar: @David Hill orthoptera.speciesfile.org

02:41:31 Renata Sousa-Lima: yes, I work with folks from seismology using sensors that detect large whales

02:41:38 Helen Whitehead: @Dr Michael Towsey ok, so is it an issue to filter out files with unwanted sound and then run the ACI?

02:41:40 Renata Sousa-Lima: offshore

02:44:13 Renata Sousa-Lima: some ants produce sound, just very low intensity, probably not detected using SM

02:45:47 Jana Vokurkova: Related to Amandine's note earlier, I would like to continue in this using acoustic indices as I have a lot of recordings from Mt. Cameroon

<https://www.cambridge.org/core/journals/journal-of-tropical-ecology/article/seasonality-of-vocal-activity-of-a-bird-community-in-an-afrotropical-lowland-rain-forest/B9B421FF2B86A543EA1470CA4FF82B2>

02:45:49 William Carvalho: @Samanta Ordóñez, I'm starting in this area ... I think Renata would have more experience to say something.

02:45:50 Renata Sousa-Lima: impressive results

02:47:19 Renata Sousa-Lima: @Samanta the field is growing all over South America

02:47:23 Helen Whitehead: Unfortunately I have a lot of files with environmental noise, very frustrating. Sorry for all the questions, I am an ecologist researcher who has started using acoustic indices and there is a lot to learn. To avoid the frequency bands that contain unwanted noise would I set a filter to focus only on frequency bands associated with birds (similar to the BIO which focuses between 2 - 8 kHz)

02:49:22 Renata Sousa-Lima: @Helen, I dont know what your interests are but if focused on specific taxa you should look into detectors

02:50:45 Jana Vokurkova: :)

02:50:46 Helen Whitehead: @Renata I am going to be starting to work with classifiers through Kaleidoscope to focus on specific species

02:50:52 Laura S: A tutorial on how to deal with getting the "signal" from the "noise" pun intended would be super.

02:51:06 Karina Townsend: This is really great - to hear Amandine talk about the project I actively contributed to. I had just bought an Audiomoth and it was delivered just as lockdown happened. It was a beautiful citizen science project to be involved in.

02:51:12 Manon Tyssandier: Thank you so much Dr Gasc it was really interesting !

02:51:14 Orlando Acevedo-Charry: Excellent talk Amandine!

02:51:22 Sarah Obaid: Thank you Dr. Gasc  
02:51:23 Renata Sousa-Lima: Loved your talk Dr Gasc!  
02:51:29 John Quinn: Great to hear un update on Silent Cities!  
02:51:29 Matthew Casali: Thank you Dr. Gasc!  
02:51:30 Penelope Fialas: I had seagulls attacking my audiomoth  
during the Silent Cities Project :)  
02:51:44 Simon Butler: Thanks Amandine - great to see use framed around  
scientific questions  
02:51:55 Hairul Masrini Muhamad: love the talk Dr Gasc!  
02:51:58 Karina Townsend: My audio moth documented the moving in and  
out of neighbours and their cultures!  
02:52:00 Alexander MacPhail: You could try [www.wildtrax.ca](http://www.wildtrax.ca)  
02:52:04 Diego Llusia: Awesome, Amandine!! Super fan  
02:52:12 Carlos Araújo: Thanks a lot! Really enlightening!  
02:52:14 Alison Styring: great question  
02:52:33 Jana Vokurkova: Exciting talk, thank you very much!  
02:52:42 Laura S: Change science culture!  
02:54:19 Renata Sousa-Lima: Unfortunately it is not about science...  
02:54:28 Laura S: It is in some ways  
02:54:33 Sunil Kumar: Great talk Dr. Gasc  
02:54:51 Laura S: funding, etc. require competition, but collaboration  
is needed for fully open science, etc.  
02:54:55 Renata Sousa-Lima: I am all for free science made for and to  
all, dont get me wrong  
02:55:15 Renata Sousa-Lima: it is frustrating though, I was one of the  
people asking these questions  
02:55:49 Alison Styring: and when you work away from your home base, there  
are issues regarding who has the right to share the sounds and to have access  
02:56:36 Alison Styring: it can be very sensitive. it seems best to share as  
much as possible, but I never want to impinge on my collaborators especially if it's  
international work.  
02:56:52 Hairul Masrini Muhamad: agree with Alison  
02:57:57 Brian Huggett: data is different than innovation  
02:58:18 anne arriens: Merci a vous  
02:58:22 Laura S: Thank you so much! Amazing!  
02:58:38 John Quinn: Thank you everyone!  
02:59:03 Anthony Aboumrad: awesome presentations, thank you so much!  
02:59:06 Penelope Fialas: Thank you the panellists and wildlife  
acoustics for organising this! It was great  
02:59:07 Mona Doss-Spencer (Wildlife Acoustics):  
<http://bit.ly/WildlifeMailingList>  
02:59:08 Supun Galappaththi: Awesome talk, thank you very much!  
02:59:10 Neansaí O'Donovan: Many thanks to everyone, that was so  
informative. Hats off to everyone for their contribution.  
02:59:14 Andrew Fairbairn: Great presentations, thank you!  
02:59:20 Renata Sousa-Lima: It has been great! Thank you all!  
02:59:30 Roberto Vargas Masís: Awesome presentations! Thank you so much!  
02:59:42 Karina Townsend: This has been fantastic. Thank you so much.  
02:59:42 Liliana Ferreira: Thank you so much everyone for sharing all  
this wonderful information with us and for your time c:

02:59:51 CINDY STAICER: Fantastic session, thanks so much!  
02:59:53 Mona Doss-Spencer (Wildlife Acoustics): for survey and raffle  
<https://bit.ly/WAWebinarSurvey>  
02:59:54 Neysa Frechette: Thank you!  
02:59:57 milton cezar ribeiro: If anybody have interest on soundscape data  
within Atlantic Forest Biodiversity Hotspot, we have about 40TB of fresh data to play  
with :-)  
03:00:06 Roberto Vargas Masís: I share again this for all participante that  
want to colaborase with us. Currently I´m using acoustic indexes to characterize of  
soundscape associated to the bird community as a proposal for the establishment of  
an Interurban Biological Corridor in Costa Rica. If some of you can collaborate with  
this form will be very useful for us to take in count your experience and opinion  
[https://bit.ly/acousticindexes\\_cbi\\_english](https://bit.ly/acousticindexes_cbi_english)  
Thanks!  
03:00:07 Jessica Chen: Thank you all! This has been very informative!  
03:00:14 Christine Gabriele: Thanks!  
03:00:18 Yoba Alenga: Thanks for the talk. It was really amazing  
03:00:25 Jessica McCordic: Thanks so much to all the speakers--this was  
a great webinar!  
03:00:40 Mona Doss-Spencer (Wildlife Acoustics): link to survey  
<https://bit.ly/WAWebinarSurvey>  
03:00:46 Mona Doss-Spencer (Wildlife Acoustics): link to newsletter sign up  
<http://bit.ly/WildlifeMailingList>  
03:00:54 Andrew Fairbairn: Exciting  
03:01:21 Ines Moran: Cool!  
03:01:31 Brian Hendrix: It's about time! :)  
03:01:31 Mona Doss-Spencer (Wildlife Acoustics): link to survey  
<https://bit.ly/WAWebinarSurvey>  
link to newsletter sign up <http://bit.ly/WildlifeMailingList>  
  
03:01:47 A. Gasco: thank you  
03:01:47 Matthew Penella: Thank you all, this was excellent!  
03:01:53 Yvette Abril Del AngelFlores: @Milton Cezar Ribeiro I'm interested  
XXXXXXXXXXXX  
03:01:54 Cristian Pérez-Granados: Thanks to all!  
03:01:56 Hanika Cook: Thank you!  
03:01:56 Enis Berk Çoban: Thank you, it was great  
03:01:58 Rada Petric: Thank you all!!!  
03:01:58 Luane Ferreira: Thank you all  
03:01:58 Renata Platenberg: thank you !  
03:01:58 Manon Tyssandier: Thank you everyone !  
03:02:00 Ines Moran: Thank you all!  
03:02:00 Victor Matasov: Great! Thanks a lot to everyone!  
03:02:09 Sarah Obaid: Thanks everybody  
03:02:09 Alison Styring: Thank you!  
03:02:16 Claudius Kerth: Thanks to all presenters! Very interesting talks!  
03:02:17 Dr. Bryan Pijanowski: Thanks everyone. A great session and loved  
all of the wonderful comments from everyone! WoW Listen well!  
03:02:18 Mark Carter: Great stuff. Thanks everyone  
03:02:18 Allison Kupar: Thank you! Great information.

03:02:25 Luke Strugnell: thanks that was great.  
03:02:25 Jeff Matheson: Thank you! Very interesting.  
03:02:28 Keith Lyons: Gracias  
03:02:35 Carlos Iglesias-Merchan: thank you. hugs!  
03:02:37 Monica Retamosa: Thanks!  
03:02:41 Harold Mills: Thanks, everybody!  
03:02:43 Michael Lynch: Thanks!  
03:02:44 Karina Townsend: So timely  
03:02:57 Juan López: Thank you very much!