

32nd Annual Animal Behavior Conference

March 28–29, 2025

Plenary Speaker

Dr. Alison Bell

Department of Evolution,
Ecology and Behavior
University of Illinois
Urbana-Champaign

*"The proximate basis of
evolutionary divergence in
paternal care in sticklebacks"*

Keynote Speaker

Dr. André Franco

O'Neill School of Public
and Environmental Affairs
Indiana University
Bloomington

*"It's a zoo beneath our feet!
The ecology of soil invertebrates
and their functions in changing
ecosystems"*








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Conference name tags feature color indicators to facilitate networking

	Red		Purple		Light Blue		Bright Green
	Accepting Postdocs		Accepting Grad Students		Seeking Postdoc Position		Seeking Grad Program
	Green				Seeking Collaborators		



This is a public event where pictures will be taken, and you may be photographed during the conference.

PROGRAM IN BRIEF

FRIDAY, MARCH 28TH

TALKS

9:15 AM – 4:00 PM

The Great Room, Monroe Convention Center

PLENARY PRESENTATION

4:15 PM – 5:15 PM

The Great Room, Monroe Convention Center

OPENING RECEPTION

5:15 PM – 8:00 PM

Duke Energy Room East, Monroe Convention Center

POSTER SESSION

6:00 – 8:00 PM

The Great Room, Monroe Convention Center

SATURDAY, MARCH 29TH

TALKS

9:15 AM – 2:45 PM

The Great Room, Monroe Convention Center

KEYNOTE PRESENTATION

3:00 PM – 4:00 PM

The Great Room, Monroe Convention Center

HOW TO DONATE TO CISAB

Registration for the IU Animal Behavior Conference is free. However, funding for the meeting depends on contributions from generous donors. Please donate to the Program in Animal Behavior Fund to help support this and future meetings.

Suggested Donation: Students - \$10, Faculty - \$30

Donate at www.myiu.org/one-time-gift

Search “Program in Animal Behavior” or scan code.



WI-FI ACCESS

MONROE CONVENTION CENTER: Wi-Fi network: MCCC Guest WiFi
For assistance, see Convention Center staff or call 812-336-3681

INDIANA UNIVERSITY CAMPUS: Wi-Fi network: eduroam
Must be set up through an eduroam subscriber institution
Alternative network: IU Guest
For assistance, contact UITS at 812-855-6789

ACCOMMODATIONS FOR NURSING MOTHERS

At the Convention Center, nursing mothers will be provided with a private office, electricity, and a refrigerator, if needed. Please see Convention Center staff at the front desk or call 812-336-3681.

INSTRUCTIONS FOR SPEAKERS

File Submission:

*Submit your files **at least two days** before your presentation day.*

Name your presentation file as follows:

PresentationDay_PresentationTime_LastName_FirstName_OperatingSystem.FileExtension
(i.e. Fri_1100AM_Doe_John_Mac.pptx)

Audio and video can be included in the PowerPoint presentations, and any supplementary files can be submitted in a zipped folder. Use the file name above and add “_Suppl” to the end.

After you have named your file(s) appropriately, email them to: **aguilare@iu.edu**

Files may be updated until the deadline by repeating this process with the same filename. We will use the most recent version.

Day of Presentation:

Please report to the speaker ready-table 10 minutes before your talk to be fit with a microphone. This table will be located to the left side of the audience seating.

At that time, you may indicate to the AV volunteers whether you would like your talk to be recorded.

INSTRUCTIONS FOR POSTER PRESENTERS

Posters can be set up behind the audience in the Great Room during breaks in the speaker schedule on Friday, March 28th. Poster numbers are listed starting on page 9 and hanging materials will be provided. Posters should remain on display through Saturday morning and may be removed during breaks in the speaker schedule on Saturday, March 29th.

This year's session will be broken into **two hour-long halves**, so that presenters may circulate and enjoy refreshments during their off-hour.

ODD numbered posters are presented during the **first hour** of the session (6-7 PM)

EVEN numbered posters are presented during the **second hour** (7-8 PM)

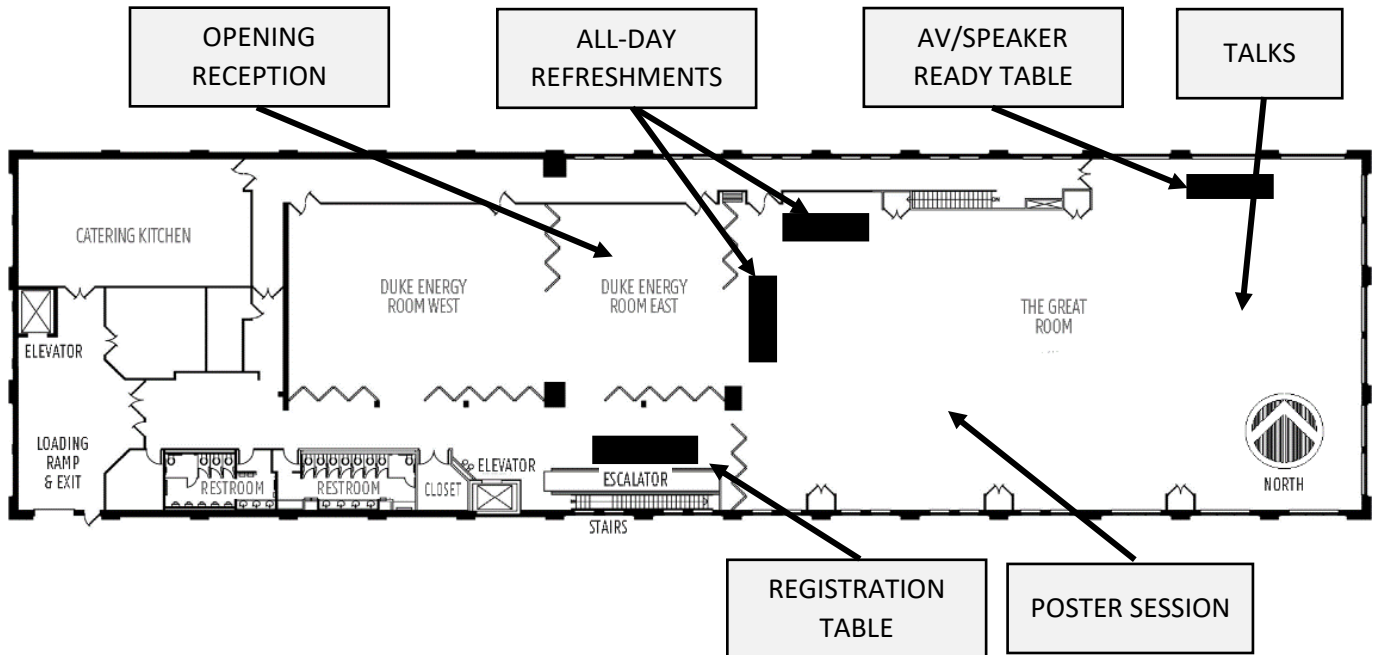
You may stay with your poster during your off hour, but it is not required.

MONROE CONVENTION CENTER

302 S. College Avenue
Bloomington, IN 47403

Phone: 812-336-3681
www.BloomingtonConvention.com

SECOND FLOOR:



**PARKING IS FREE IN THE LOT SURROUNDING
THE CONVENTION CENTER**

For updated information about transportation and dining options around Bloomington, please see the Accommodations page of the Animal Behavior Conference website:

<https://animalbehavior.indiana.edu/news-events/conference/accomodations.html>

ACCOMMODATIONS



ONLINE ENGAGEMENT

This year, we are excited to introduce several ways to engage with the conference online. The purpose of these platforms is to facilitate networking, increase accessibility, and build community, both during and after the conference.

DISCORD SERVER

The ABC 2025 private Discord server lets members send group or direct messages, grouped into relevant categories. Conference organizers will moderate the use of this server to ensure that conversations remain relevant and professional. To join on a laptop, tablet, or mobile device, simply navigate to the ABC 2025 invite link and follow the instructions: <https://discord.gg/aQ5JG3ppXN>

Once you join the server, you will find several messaging “channels” where conference communication is organized into the following topics:

- Introductions & Networking
- Conference Logistics
- Questions & Discussion About Oral Presentations
- Questions & Discussion About Poster Presentations



ONEDRIVE SHARING

You may make your poster, presentation, or other materials available to other attendees online by uploading it to our shared OneDrive folder:

<http://tinyurl.com/ABC2025Posters>

PASSCODE: AnimalBehavior2025

Follow the file naming convention:

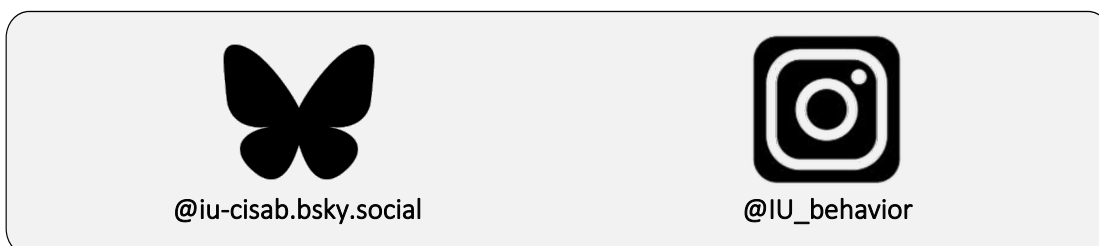
Poster#orPresentationTime_LastName.FileExtension

Uploads will stay open through Wednesday, April 2nd and then the folder will become “view only.”



SOCIAL MEDIA

Follow us on Bluesky (@iu-cisab.bsky.social) or Instagram (@IU_behavior) to get updates on everything happening at the conference! Tag us with your conference content using #ABC2025.



FRIDAY, MARCH 28TH

SCHEDULE OF TALKS

THE GREAT ROOM, MONROE CONVENTION CENTER

9:15 – 9:30 **OPENING REMARKS AND COFFEE**

Cara L Wellman

Director, Center for the Integrative Study of Animal Behavior

SESSION I: BRAIN AND BEHAVIOR

Moderator: Sara Isgate

9:30 – 9:45 **VIP-EXPRESSING MIDBRAIN PATHWAY CONTROLS POTENTIATION OF HIPPOCAMPAL INPUTS TO THE CENTRAL AMYGDALA DURING CONTEXTUAL FEAR LEARNING**

Maria Rita Karlocai

Senior Research Fellow, Department of Psychological and Brain Sciences, Indiana University

9:45 – 10:00 **EXPLORING THE ROLE OF GLUCOCORTICOID SIGNALING IN THE MOLECULAR, SYNAPTIC, AND BEHAVIORAL EFFECTS OF NORBAEOCYSTIN**

David T Dadosky

Graduate Student, Department of Pharmacology, Physiology, and Neurobiology, University of Cincinnati

10:00 – 10:15 **CANNABINOID REGULATION OF MURINE EXOCRINE SECRETION**

Natalia Murataeva

Postdoctoral Fellow, Department of Psychological and Brain Sciences, Indiana University

10:15 – 10:30 **MICROGLIAL *NR3C1* DEPLETION ALTERS STRESS EFFECTS ON SYNAPTIC DENSITY AND BEHAVIOR IN A SEX-DEPENDENT MANNER**

Etienne J Mueller

Undergraduate Student, Department of Pharmacology, Physiology, and Neurobiology, University of Cincinnati

10:30 – 10:45 **HOW BEHAVIORAL STRATEGIES AND SEX SHAPE BRAIN TRANSCRIPTOME EVOLUTION**

Isaac Miller-Crews

Postdoctoral Fellow, Department of Biology, Indiana University

10:45 – 11:00 **WINTER MEANS MEANER: EFFECTS MELATONIN ADMINISTRATION ON OFFENSIVE AND DEFENSIVE AGGRESSION IN SIBERIAN HAMSTERS**

Yuqi Han

Graduate Student, Department of Biology, Indiana University

REFRESHMENT BREAK

SESSION II: REPRODUCTIVE AND PARENTAL BEHAVIOR

Moderator: Maire O'Malley

- 11:15 – 11:30 **IT'S COMPLICATED: SOCIAL DENSITY AND SPATIAL COMPLEXITY IN THE LIVING ENVIRONMENT INTERACT TO INFLUENCE MOUSE COURTSHIP BEHAVIOR ACROSS CONTEXTS**
Lauren R Leuner
Graduate Student, Department of Biology, Indiana University
- 11:30 – 11:45 **MATERNAL BEHAVIOR AND VARIATION IN THE CENTRAL HIMALAYAN LANGUR**
Elizabeth M C Coggeshall
Graduate Student, Department of Anthropology, Indiana University
- 11:45 – 12:00 **POSTPARTUM LIMITED BEDDING AND NESTING ALTERS MATERNAL AGGRESSION AND HABENULAR CFOS EXPRESSION IN LONG EVANS RATS**
Sydney Ku
Graduate Student, Center for Behavioral Neuroscience, Georgia State University

LUNCH BREAK

SESSION III: ENVIRONMENTAL INFLUENCES ON DECISION MAKING

Moderator: Morgan Familo

- 1:30 – 1:45 **ANTIPREDATOR BEHAVIORAL SYNDROMES AND NEST-SITE CHOICE IN A FRESHWATER TURTLE**
Morgan A Clark
Graduate Student, Department of Integrative Biology, Michigan State University
- 1:45 – 2:00 **NEST ATTRIBUTES INFLUENCE CHOICE ACCURACY, BUT NOT DECISION SPEED IN ACORN ANT NEST-SITE SELECTION**
Sheila Shu-Laam Chan
Graduate Student, Department of Ecology & Evolutionary Biology, University of Tennessee Knoxville
- 2:00 – 2:15 **NUTRITIONAL NICHE SEPARATION AMONGST SYMPATRIC THREATENED LEMURS: THE ROLE OF MICRONUTRIENTS IN FOOD SELECTION AND IMPLICATIONS FOR PHYSIOLOGIC HEALTH**
Maire K O'Malley
Graduate Student, Department of Anthropology, Indiana University
- 2:15 – 2:30 **STARVATION RISK AND ENVIRONMENTAL STABILITY INFLUENCE THE USE OF SOCIAL INFORMATION IN A FORAGING MODEL**
Kitt Kroeger
Graduate Student, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University
- 2:30 – 2:45 **THE EFFECTS OF PERIODICAL CICADA EMERGENCE ON ANT FORAGING**
Calliope Saban
Undergraduate Student, Department of Biology, Lake Forest College

REFRESHMENT BREAK

SESSION IV: DEVELOPMENT AND EARLY LIFE

Moderator: Josie Fornara

- 3:00 – 3:15 **UNCOVERING THE TIMING AND ORIGINS OF DE NOVO MUTATIONS IN THE OFFSPRING AND PLACENTA OF RHESUS MACAQUES**
Yadira Peña-Garcia
Graduate Student, Department of Biology, Indiana University
- 3:15 – 3:30 **CAN'T YOU BE MORE LIKE YOUR BROTHER? AN EXPERIMENTAL HEAT CHALLENGES REVEALS SUBSTANTIAL VARIATION IN NESTLING THERMOREGULATORY BEHAVIOR**
Emmy James
Graduate Student, Department of Ecology and Evolutionary Biology, University of Tennessee
- 3:30 – 3:45 **PERINATAL EXPOSURE TO ANTI-AGING SUPPLEMENTS AFFECTS BRAIN DEVELOPMENT AND BEHAVIOR IN RATTUS NORVEGICUS**
Hallie Ruby
Graduate Student, Department of Psychology, Bowling Green State University
- 3:45 – 4:00 **DEVELOPMENT OF FACE RECOGNITION IN NEWBORN CHICKS AND EMBODIED COMPUTATIONAL MODELS**
Zachary Laborde
Graduate Student, Cognitive Science Program & Program in Neuroscience, Indiana University
-

REFRESHMENT BREAK

PLENARY SESSION:

- 4:15 – 5:15 **THE PROXIMATE BASIS OF EVOLUTIONARY DIVERGENCE IN PATERNAL CARE IN STICKLEBACKS**
Alison M Bell
Professor, Department of Evolution, Ecology and Behavior, University of Illinois Urbana-Champaign
- 5:15 – 8:00* **OPENING RECEPTION**
Duke Energy Room East, Monroe Convention Center
**Continues concurrently with the poster session*
- 6:00 – 8:00 **POSTER SESSION**
The Great Room, Monroe Convention Center

OPENING RECEPTION AND POSTER SESSION

Immediately following the plenary session, we will kick off our opening reception. Hors d'oeuvres will be served in the eastern half of the Duke Energy Room and can be enjoyed concurrently with the poster session, which will begin at 6 PM.

This year's poster session will be divided into two hour-long halves:

If your poster number is **ODD**, you should present during the first hour (6-7 PM) and may tour other posters during the second hour (7-8 PM).

If your poster number is **EVEN**, you may tour other posters during the first hour (6-7 PM) and present during the second hour (7-8 PM).

You may remain by your poster during your off hour, but it is not required. Those entering the undergraduate poster competition must be present during their assigned hour to win.

See pages 9-14 for poster titles and numbers.
Full abstracts and author lists for all posters and talks are available on the Schedule + Program page of the conference website:
<https://animalbehavior.indiana.edu/news-events/conference/schedule.html>

FULL ABSTRACTS



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Suggested Donation: Students - \$10, Faculty - \$30

Donate at www.myiu.org/one-time-gift

Search "Program in Animal Behavior" or scan code.



POSTER PRESENTATIONS

FRIDAY, MARCH 28TH 6-8PM, THE GREAT ROOM, MONROE CONVENTION CENTER

ODD-NUMBERED POSTERS PRESENTED FROM 6-7 PM
EVEN-NUMBERED POSTERS PRESENTED FROM 7-8 PM

This allows presenters to tour other posters and enjoy refreshments during their off-hour.

Poster numbers alphabetical by presenter last name (**bold**)

Full abstracts can be found on the conference website:

<https://animalbehavior.indiana.edu/news-events/conference/schedule.html>

ONLINE POSTERS



PASSCODE:

AnimalBehavior2025

- 1 **CULTURE-DEPENDENT ANALYSIS OF MICROBIAL DIVERSITY IN THE RHIZOSPHERE OF HEALTHY AND DISEASED *SOLANUM LYCOPERSICUM***
Adedayo AA
Department of Biological Sciences, Western Illinois University
- 2 **THE EFFECTS OF URBAN NOISE POLLUTION ON THE FORAGING BEHAVIOR OF HOUSE SPARROWS *PASSER DOMESTICUS***
Alcaraz M, Fox B, Harries O, Ronald K
Department of Biology, Hope College
- 3 **THE IMPACT OF ECOLOGICALLY RELEVANT AND IRRELEVANT STIMULI ON GROUPS OF EARTHWORMS IN AN OPEN FIELD ENVIRONMENT**
Allen AJ, Herb L, Peters A, Ivkovich-Claflin D
Department of Psychology, Wright State University
- 4 **AGGRESSIVE AND AFFILIATIVE BEHAVIOR DURING EATING IN INTACT VS NEUTERED FERAL CAT *FELIS CATUS* COLONIES**
Arnold CL
Department of Psychology, Wright State University
- 5 **SEX-BASED RESPONSES OF EASTERN NEWTS TO ALARM CUES FROM CONSPECIFICS AND A SIMULATED PREDATION EVENT**
Badore AM, Flick SH, Van Beek EA, Gall BG
Department of Biology, Hanover College
- 6 **NAPE-PLD DELETION ALTERS ORAL OXYCODONE CONSUMPTION AND Δ FOSB EXPRESSION IN A TWO-BOTTLE CHOICE PARADIGM IN A SEXUALLY DIMORPHIC MANNER**
Balaji A, Woodward T, Sizemore EF, Hainline J, Port A, Luquet S, Mackie K, Hohmann AG
Department of Psychological and Brain Sciences, Indiana University
- 7 **EVALUATING THE USE OF HIGH-FREQUENCY VOCALIZATIONS IN HUMMINGBIRD TERRITORIAL INTERACTIONS**
Baruah P, Duque FG
School of Biological Sciences, Illinois State University

- 8 **EYE COLOR IN RED-EYED TREE FROGS *AGALYCHNIS CALLIDRYAS* IS UNLIKELY TO SERVE AS A STARTLE MECHANISM**
Betzner JD, Watterson KJ, Ronk SE, Enginger KM, Gall BG
Department of Biology, Hanover College

- 9 **THE COST OF SOCIAL DOMINANCE USING TERRITORY MANIPULATIONS IN MALES OF THE CICHLID FISH *ASTATOTILAPIA BURTONI***
Beyett TW, Buzinski ODK, Dijkstra PD
Biology Department, Central Michigan University

- 10 **ALTERATION OF *PASSER DOMESTICUS* PERCEPTION OF PREDATORY SOUNDS WHEN MASKED WITH URBAN NOISE POLLUTION**
Bice KE, Cummings A, Carter K, Ronald K
Department of Biology, Hope College

- 11 **CONSEQUENCES OF ARTIFICIAL LIGHT AT NIGHT ON BIOLOGICAL RHYTHMS AND FITNESS OF *RHAGOLETIS JUGLANDIS* FLIES**
Burns JL, Beard B, Anner SC, Lackey ACR
Department of Biology, University of Louisville

- 12 **INVESTIGATING COMMUNAL ROOSTING BEHAVIORS OF BROWN-HEADED COWBIRDS (*MOLOTHRUS ATER*)**
Burns JW, Chamberlain ML, Schelsky WM, Ward MP, Hauber ME
Department of Evolution, Ecology, and Behavior, University of Illinois Urbana-Champaign

- 13 **THE EFFECT OF AGE ON PIGEON (*COLUMBIA LIVIA*) DECISION-MAKING IN A VARIABLE REWARD, SPATIAL MEMORY TASK**
Burns TM, Coppola VJ, Bingman VP
Department of Psychology, Bowling Green State University

- 14 **BEHAVIORAL AND PHYSIOLOGICAL TOLERANCE TO REPEATED ROUNDS OF HYPOXIA IN THE CICHLID FISH *ASTATOTILAPIA BURTONI***
Buzinski ODK, Balasa AS, Dijkstra PD
Biology Department, Central Michigan University

- 15 **WHY PATH INTEGRATING FIDDLER CRABS ALIGN THEIR BODIES WITH HOME**
Chatterji R, Layne JE
Department of Biological Sciences, University of Cincinnati

- 16 **THIRD WHEELING IN MOUSE COMMUNICATION: HUMAN HANDLING EFFECTS ON FEMALE COURTSHIP AND SOCIABILITY**
Cora AN, Leuner LR, Hurley LM
Department of Biology, Indiana University

- 17 **TOASTY TADPOLES: HOW TEMPERATURE AFFECTS SIZE AND SWIM IN A DESERT-ADAPTED FROG**
Cummings EB, Shell ER, Miller JL, Ledón-Rettig CC
Department of Biology, Indiana University

- 18 **WHAT CAN ANIMALS TELL US ABOUT ANALGESIC EFFICACY?**
de Assis Ferreira L, Hohmann AG
Department of Psychological and Brain Sciences and Gill Institute for Neuroscience, Indiana University

- 19 **THE EFFECT OF SOCIAL CONTEXT ON AGGRESSION BIASES IN TWO CICHLID FISH SPECIES**
Dijkstra PD
Department of Biology, Central Michigan University
- 20 **FEMALE DOMINANCE IN A CAPTIVE COLONY OF COMMON VAMPIRE BATS**
Duffey DM, Price I, George E, Carter G
Department of Evolution, Ecology and Organismal Biology, The Ohio State University
- 21 **NEST-SITE SELECTION AS A STRATEGY FOR MANAGING HEAT IN TREE SWALLOWS *TACHYCINETA BICOLOR***
El-Salim OL, James E, Papeş M, Derryberry EP
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville
- 22 **THE EFFECT OF STRESS ON FEMALE PREFERENCE AND PERCEPTION OF A SOCIALLY RELEVANT STIMULUS**
Enevold A, Duque FG
School of Biological Sciences, Illinois State University
- 23 **SEASONAL MODULATION OF WINNER EFFECTS AND ADRENAL ANDROGENS IN FEMALE SIBERIAN HAMSTERS**
Fink HF, Cong A, Han Y, Demas GE
Department of Biology, Indiana University Bloomington
- 24 **CHARACTERIZING OVARIAN GENE EXPRESSION ALONG STEROIDOGENIC PATHWAYS IN A WILD TERRITORIAL SONGBIRD**
Fornara JH, Aguilar LA, Levy EJ, Rosvall KA
Department of Biology, Indiana University Bloomington
- 25 **EVIDENCE FOR PARASITE-MEDIATED SEXUAL SELECTION: FEMALE PREFERENCE FOR PARASITE-FREE MALES IN *DROSOPHILA ALBOMICANS***
Schaefer P, Gallagher C, Polak M
Department of Biological Sciences, University of Cincinnati
- 26 **THE IMPACTS OF HUNTING ENRICHMENT ON LARVAL ZEBRAFISH (*DANIO RERIO*) EXPLORATION AND STRESS RESPONSES**
Garcia EO
Department of Psychology, Indiana University Northwest
- 27 **GEOGRAPHIC VARIATION IN THE TIMING OF SONG IN THE GENUS *MICROCERCULUS***
Geyer TL, Duque FG, Rodríguez-Saltos C
School of Biological Sciences, Illinois State University
- 28 **WHO'S CALLING? SPECIES-LEVEL CALLING DURING THE 2024 TOTAL SOLAR ECLIPSE**
Haddad SP, Von Deylen M, Gershman S
Department of Evolution, Ecology, and Organismal Biology, The Ohio State University
- 29 **CIRCALUNIDIAN RHYTHMS OF VERTICAL MIGRATION IN LARVAE OF THE AMERICAN HORSESHOE CRAB, *LIMULUS POLYPHEMUS***
Hall FK, Santos JM, Chabot CC
Department of Biological Sciences, Plymouth State University

- 30 **DIFFERENTIAL EFFECTS OF EXERCISE AND HORMONE TREATMENT ON SPINAL CORD INJURY-INDUCED CHANGES IN MICTURITION AND MORPHOLOGY OF EXTERNAL URETHRAL SPHINCTER MOTONEURONS**
Hibbard EA, Du X, Zhang Y, Xu X, Deng L, Sengelaub DR
Department of Psychological and Brain Sciences, Indiana University
- 31 **THE IMPACT OF HEAT ON NEST SITE SOCIAL INTERACTIONS IN TREE SWALLOWS (*TACHYCINETA BICOLOR*)**
Kelsey E, James E, Derryberry EP
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville
- 32 **REPRODUCTIVE TIMING IN DARK-EYED JUNCOS: DISENTANGLING PLASTICITY AND HERITABILITY IN FIRST EGG DATES**
Kelson AS, Wanamaker SM, Ketterson ED
Department of Biology, Indiana University Bloomington
- 33 **INVESTIGATING THE EFFECT OF AVIAN CUES ON WOLF SPIDER COURTSHIP BEHAVIOR**
Lesniak A, Anderson P, Brown M, Sullivan R, Eveland C, Gibson J
Zoology Program, Kentucky Wesleyan College
- 34 **BIOAMINE DISRUPTION LEADS TO MEMORY DEFICITS IN THE WHIP SPIDER *PHRYNUS MARGINEMACULATUS***
Ley S, Brown N, Gookin N, Wolff G, Wiegmann D, Bingman V
Department of Biological Sciences, Bowling Green State University
- 35 **A ROLE FOR CANNABINOID CB1 RECEPTORS IN OLFACTORY IDENTIFICATION OF KINSHIP?**
Mattox SR, Straiker A, Murataeva N
Department of Psychological and Brain Sciences and Gill Institute for Neuroscience, Indiana University
- 36 **CONTEXTUAL AND TEMPORAL CONTROL OVER NOVELTY-FACILITATED EXTINCTION: EXTENSIONS INTO OTHER CASES OF CONFLICT**
Mehrzaad Z, Bukkasagaram M, Saini J, Bradley L, Campese V
Department of Psychology, University of Evansville
- 37 **PERIADOLESCENT BLUE LIGHT EXPOSURE AND BRAIN DEVELOPMENT**
Meszaros DP, Riesgo V, Willing J
Department of Psychology, Bowling Green State University
- 38 **EFFECT OF PERCEIVED PREDATOR CUE ON COURTSHIP IN *PHOLCUS MANUELI***
Neff-Friel E, Salazar A, Rypstra A
Department of Biology, Miami University
- 39 **DOES WITHIN-NEST POSITION INFLUENCE IMMUNE RESPONSE TO HEAT IN TREE SWALLOWS (*TACHYCINETA BICOLOR*)?**
Padmore MM
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville
- 40 **NEST FEATHER PREFERENCES AND ENDOCRINE RESPONSES IN MALE TREE SWALLOWS (*TACHYCINETA BICOLOR*)**
Park MS, James E, Derryberry E
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville

- 41 **AN OPPORTUNISTIC STUDY OF EFFECTS OF FOOD COMPETITION ON DOMINANCE STRUCTURE IN CAPTIVE VAMPIRE BATS**
Price I, Duffey D, George E, Carter G
Department of Evolution, Ecology, and Organismal Biology, The Ohio State University
- 42 **ARTIFICIAL FOREST GAPS AND THE SEASONAL PROGRESSION OF MOLT IN FOUR SELECT NEOTROPICAL MIGRANTS**
Ransom NE, Bingman V, Latta S
Department of Biological Sciences, Bowling Green State University
- 43 **CHARACTERIZATION OF AGE-RELATED SEX DIFFERENCES IN ORGANIZATION OF MOUSE OPEN FIELD BEHAVIOR**
Roblin L, Sampson H, Lake R, Wallace D
Department of Psychology, Northern Illinois University
- 44 **I MUSTACHE YOU A QUESTION: DO VIBRISSAE CONTRIBUTE TO MOUSE BI-MANUAL COORDINATION IN A STRING-PULLING TASK?**
Sampson H, Wallace D
Department of Psychology, Northern Illinois University
- 45 **USING AN ACOUSTIC CAMERA TO DIFFERENTIATE INDIVIDUAL CONTRIBUTIONS IN DUETS OF NEOTROPICAL WRENS**
Sander G, Rodríguez-Saltos C
Department of Biological Science, Illinois State University
- 46 **THE LONG-TERM EFFECT OF PARASITISM ON MALE COPULATION SUCCESS IN *DROSOPHILA SULFURIGASTER***
Schaefer P, Gallagher C, Polak MI
Department of Biological Sciences, University of Cincinnati
- 47 **SIGNAL TRANSMISSION OF BAY WREN DUETS AND SOLO SONGS**
Schinzler R, Rodríguez-Saltos C
Department of Biological Sciences, Illinois State University
- 48 **USING COMPUTER VISION TO EXPLORE THE LINK BETWEEN BEAK MOVEMENTS AND BIRDSONG IN THE WILD**
Scott J, Rodríguez-Saltos C
School of Biological Sciences, Illinois State University
- 49 **THE EFFECT OF TEMPERATURE ON MALE ZEBRA FINCH (*TAENIOPYGIA CASTANOTIS*) SOCIAL INTERACTIONS**
Shaw SP, Empson T, Derryberry E
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville
- 50 **DIALING UP THE COMPETITION: MALE TREEFROGS DYNAMICALLY ADJUST CALLING BEHAVIOR IN RESPONSE TO RIVAL MALES**
Shinn LE, Tanner JC
Department of Ecology and Evolutionary Biology, University of Tennessee
- 51 **A SYSTEMATIC STUDY OF FREEZING BEHAVIOR IN EARTHWORMS IN RESPONSE TO AUDITORY AND VIBRATORY STIMULI**
Singh N, Burton A, Claflin D
Department of Psychology, Wright State University

- 52 **IMPACT OF TEMPERATURE ON SONG PRODUCTION AND DURATION IN ZEBRA FINCHES (*TAENIOPYGIA CASTANOTIS*)**
Smith TN, Empson T, Derryberry E, Gilchrist M
Department of Ecology and Evolutionary Biology, University of Tennessee Knoxville
- 53 **A COVER OBJECT EXCLUSION EXPERIMENT BETWEEN ZIGZAG SALAMANDERS (*PLETHODON DORSALIS*) AND NATIVE CENTIPEDES**
Stegemoller SG, Betzner JD, Gall BG
Department of Biology, Hanover College
- 54 **OUTCOME DEVALUATION REVEALS THE TRANSITION TO HABIT IN ACTIVE AVOIDANCE**
Sumner R, Beduhn P, Bukkasagaram M, Weber E, Raikar A, Burke K, Campese V
Department of Psychology, University of Evansville
- 55 **EFFECTS OF CADMIUM EXPOSURE ON THE BEHAVIOR, HEALTH, AND DEVELOPMENT OF A DUNG BEETLE (*DIGITONTHOPHAGUS GAZELLA*)**
Towse M, Westwick R, Moczek A
Department of Biology, Indiana University
- 56 **FORAGING EFFICIENCY OF RURAL AND URBAN HOUSE SPARROWS, *PASSER DOMESTICUS*, AMONG NATURAL AND UNNATURAL OBSTACLES**
Waldron AC, Ronald K, Gutierrez M, Kowalyk K
Department of Biology, Hope College
- 57 **USING THE ZOOMONITOR APP FOR BEHAVIORAL DATA COLLECTION AT LINCOLN PARK ZOO**
Wierzal NK, Wark J
Animal Welfare Science Program, Lincoln Park Zoo, Chicago, IL
- 58 **BALANCING LEVELS OF VIGILANCE UNDER DIFFERENT LEVELS OF PREDATION RISK TO MAXIMIZE FORAGING SUCCESS IN GREY SQUIRRELS USING AN INDIVIDUAL-BASED MODEL APPROACH**
Wilson K, Hayes T, Gibson J
Department of Biology and Department of Zoology, Kentucky Wesleyan College
- 59 **THE ROLE OF BODY SIZE IN VOCAL PRODUCTION OF ECUADORIAN HUMMINGBIRDS**
Wolfersberger LM, Baruah P, Duque F
School of Biological Sciences, Illinois State University
- 60 **EXPERIMENTAL OBSERVATIONS OF ARBOREAL BEHAVIOR IN MULTIPLE SPECIES OF FOSSORIAL SALAMANDERS**
Young MR, Gall BG
Department of Biology, Hanover College

SATURDAY, MARCH 29TH

SCHEDULE OF TALKS

THE GREAT ROOM, MONROE CONVENTION CENTER

9:15 – 9:30 **OPENING REMARKS AND COFFEE**

Cara L Wellman

Director, Center for the Integrative Study of Animal Behavior

SESSION V: SENSORY ECOLOGY

Moderator: Lindsay Stolting

9:30 – 9:45 **EXPERIMENTS IN SYNTHETIC SENSORY ECOLOGY**

Denizhan Pak

Graduate Student, Cognitive Science Department, Indiana University

9:45 – 10:00 **PREDATORY BEHAVIOR BY STRIGIFORM OWLS IN RESPONSE TO BIOFLUORESCENT SKIN FROM THE VIRGINIA OPOSSUM (*DIDELPHIS VIRGINIANA*)**

Suellen E Ronk

Undergraduate Student, Department of Biology, Hanover College

10:00 – 10:15 **EVALUATING THE IMPACTS OF A TOTAL SOLAR ECLIPSE ON MIDWEST PRAIRIE SOUNDSCAPE**

Madison Von Deylen

Graduate Student, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University

10:15 – 10:30 **DO YOU HEAR WHAT I HEAR? USING PLAYBACKS TO ATTRACT POLLINATORS TO AN ENDANGERED PLANT**

Jonah Dominguez

Graduate Student, School of Integrative Biology, University of Illinois Urbana-Champaign

10:30 – 10:45 **THE VISUAL INFLUENCE OF SWAYING BEHAVIOR IN PRAYING MANTISES**

Ruchao Qian

Graduate Student, Department of Biological Sciences, Florida International University

REFRESHMENT BREAK

SESSION VI: SOCIAL INTERACTION

Moderator: Hannah Fink

11:00 – 11:15 **SOCIAL BUFFERING AMELIORATES LONG-TERM IMPACTS OF ACUTE EARLY LIFE STRESS IN A SEX-DEPENDENT MANNER**

Amanda Reichert

Graduate Student, Department of Psychology, Miami University

- 11:15 – 11:30 **SOCIAL COMPLEXITY PREDICTS *CHICK-A-DEE* CALL COMPLEXITY OF MOUNTAIN CHICKADEES *POECILE GAMBELI***
Zaharia Selman
Graduate Student, Department of Psychology, University of Tennessee Knoxville
- 11:30 – 11:45 **AQUARIUM FISH WELFARE: ADVANCEMENTS IN CICHLIDS, PIRANHAS, AND BETTAS**
Ronald G Oldfield
Faculty, Department of Biology, Case Western Reserve University
- 11:45 – 12:00 **REDUCTION IN AMBIENT LIGHT ALTERS SOCIAL INTERACTIONS AND WEAKENS DOMINANCE HIERARCHIES IN A COOPERATIVELY BREEDING FISH**
Ryan Layne Gaynor
Graduate Student, Department of Evolution, Ecology, and Organismal Biology, The Ohio State University
- 12:00 – 12:15 **HABITAT ENRICHMENT PROMOTES WELFARE BUT ALTERS DOMINANCE HIERARCHIES IN A CICHLID FISH**
Farjana A Chamily
Graduate Student, Department of Biology, Central Michigan University
-

LUNCH BREAK

SESSION VII: ANTHROPOGENIC EFFECTS ON BEHAVIOR

Moderator: Atalanta Ritter

- 1:45 – 2:00 **IMPLICATIONS OF IRON OXIDE NANOPARTICLE EXPOSURE ON THE AUDITORY FUNCTION AND PHYSIOLOGY OF HOUSE SPARROWS (*PASSER DOMESTICUS*)**
Shae Johnston
Undergraduate Student, Department of Biology, Hope College
- 2:00 – 2:15 **MEASURING THE IMPACT OF ARTIFICIAL LIGHT AT NIGHT ON THE BEHAVIOR AND COGNITION OF DARK-EYED JUNCOS (*JUNCO HYEMALIS*)**
Katherine Johnson
Undergraduate Student, Cognitive Science Program, Indiana University
- 2:15 – 2:30 **URBANIZATION EFFECTS ON STRESS AND MULTIMODAL SENSORY PROCESSING IN HOUSE SPARROWS *PASSER DOMESTICUS***
Emma Yonker
Undergraduate Student, Department of Biology, Hope College
- 2:30 – 2:45 **AVIAN PHYSIOLOGICAL AND BEHAVIORAL RESPONSES TO AN ANNUAL, NIGHTTIME EVENT AT ZOO ATLANTA**
Celeste Walton
Graduate Student, The Neuroscience Institute, Georgia State University
-

REFRESHMENT BREAK

KEYNOTE PRESENTATION:

- 3:00 – 4:00 **IT'S A ZOO BENEATH OUR FEET! THE ECOLOGY OF SOIL INVERTEBRATES AND THEIR FUNCTIONS IN CHANGING ECOSYSTEM**
André Franco
Professor, O'Neill School of Public and Environmental Affairs, Indiana University
- 4:00 – 4:15 **AWARDS AND CLOSING REMARKS**
The Great Room, Monroe Convention Center

PLENARY AND KEYNOTE SPEAKER BIOGRAPHIES

PLENARY SPEAKER: ALISON BELL, Ph.D.

UNIVERSITY PROFESSOR, UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN



Dr. Alison Bell is a professor in the Department of Evolution, Ecology, and Behavior at the University of Illinois, Urbana-Champaign. She received her PhD in population biology at the University of California, Davis, then held a postdoctoral position there and at the University of Glasgow. She directs the Kellner Center for Neurogenomics, Behavior, and Society, and leads the “Gene Networks in Neural & Developmental Plasticity” research theme at the Carl R. Woese Institute for Genomic Biology. Her work centers stickleback fish as a model for the neurogenomics, inheritance, plasticity, and variability of parental care. She was recently awarded the Animal Behavior Society’s Quest Award and received a 2024 Guggenheim Fellowship.

KEYNOTE SPEAKER: ANDRÉ FRANCO, Ph.D.

ASSISTANT PROFESSOR, INDIANA UNIVERSITY BLOOMINGTON



Dr. André Franco joined IU Bloomington in 2022 as an assistant professor of soil ecology at the O'Neill School of Public and Environmental Affairs. He received his PhD in soil science at the University of São Paulo and was a postdoc at Colorado State University. He studies the ecology of soil fauna communities in managed and natural ecosystems, focusing on how their responses to modern environmental changes affect ecosystem function. His work has highlighted the fundamental role played by complex communities of microscopic and larger soil invertebrates, influencing plant performance and carbon dynamics under changing climate and land-use regimes.

ACKNOWLEDGEMENTS

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NOTES



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